

**Comparison of nonparametric analysis of variance
methods - a Monte Carlo study
Part A: Two between subjects factors designs**

**Appendix 6
Tables of the Type I Error Rate for large n
of various lognormal distributions**

All tables and graphs refer to $\alpha=0.05$. Reported are the proportions of rejections of the corresponding null hypothesis.

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6. 1. Type I error rates - Parameters 0.0 / 0.25

6. 1. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	4.80	4.75	4.30	5.40	4.40	5.65	5.45	4.75	5.00
RT	4.50	4.20	4.50	4.50	5.40	4.25	5.10	5.60	4.60	5.15
INT	4.70	4.45	4.65	4.45	5.05	4.25	5.75	5.55	4.50	5.25
ART	5.25	4.35	4.30	4.65	5.40	4.70	4.95	5.55	4.70	5.35
ART+INT	4.80	4.75	4.60	4.50	5.00	4.25	5.75	5.50	4.55	5.05
Puri & Sen	4.55	3.85	4.40	4.45	5.10	4.20	5.10	5.60	4.55	5.10
v.d.Waerden	4.45	4.10	4.55	4.40	5.10	4.25	5.65	5.55	4.45	5.20
ATS	4.35	4.00	4.45	4.45	5.30	4.20	5.10	5.60	4.55	5.15

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	5.05	4.80	5.65	5.25	5.00	5.90	4.70	4.45	5.45
RT	4.85	4.80	4.80	5.50	5.00	4.90	5.75	4.60	4.35	5.25
INT	5.05	4.70	4.55	5.40	5.00	5.05	5.90	4.60	4.70	4.55
ART	5.10	5.05	5.20	5.85	5.35	5.30	5.85	4.95	5.30	4.85
ART+INT	5.05	4.75	4.75	5.45	4.75	5.00	5.75	4.60	4.50	4.60
Puri & Sen	4.70	4.55	4.70	5.45	5.00	4.85	5.75	4.65	4.40	5.20
v.d.Waerden	4.60	4.65	4.40	5.35	4.85	4.95	5.85	4.65	4.60	4.50
ATS	4.45	4.70	4.70	5.45	5.00	4.90	5.75	4.60	4.35	5.25

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.90	4.75	4.50	5.40	4.65	5.30	4.55	5.45	4.20	4.65
RT	5.80	5.75	5.30	4.60	5.25	6.25	5.15	5.45	5.50	4.40
INT	5.15	5.25	5.10	4.90	5.25	5.60	4.90	5.70	5.20	4.55
ART	8.25	8.85	7.50	7.55	7.65	9.25	7.75	8.05	8.30	7.35
ART+INT	6.15	5.35	4.95	4.80	5.05	5.45	5.10	5.35	5.00	4.45
Puri & Sen	5.15	5.60	5.10	4.45	4.90	6.10	5.10	5.20	5.20	4.25
v.d.Waerden	4.80	5.00	4.75	4.65	4.90	5.35	4.85	5.50	5.10	4.25
ATS	5.10	5.35	5.20	4.30	4.85	6.05	4.90	5.25	5.20	4.20

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	5.00	4.65	5.70	4.75	4.60	4.80	5.45	4.85	5.20
RT	4.55	6.00	4.50	6.75	6.65	6.05	6.65	7.20	7.35	8.70
INT	4.90	5.65	5.15	6.65	6.40	6.10	6.75	7.60	7.10	8.75
ART	5.10	6.40	4.60	6.80	6.75	6.15	7.10	7.55	7.35	8.95
ART+INT	4.40	5.45	4.70	6.35	6.05	5.95	6.30	7.55	6.85	8.55
Puri & Sen	4.60	5.80	4.50	6.65	6.60	6.05	6.65	7.20	7.20	8.80
v.d.Waerden	4.85	5.35	4.95	6.60	6.25	6.05	6.65	7.55	6.95	8.75
ATS	4.25	5.85	4.50	6.75	6.65	6.05	6.65	7.20	7.35	8.70

Variations heterogeneous for factor A and B (factor4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.65	5.35	5.30	4.70	5.20	4.75	5.20	5.05	5.00	5.15
RT	5.20	5.25	5.60	5.10	6.50	6.30	6.50	6.50	6.20	6.75
INT	5.50	5.70	5.80	5.45	6.45	6.50	6.35	7.25	6.85	7.50
ART	6.90	6.50	6.95	6.40	7.45	7.40	7.70	7.65	7.45	8.50
ART+INT	5.55	5.50	6.05	5.30	6.55	6.40	6.30	7.05	6.90	7.90
Puri & Sen	5.20	5.15	5.50	4.80	6.20	6.00	6.40	6.35	6.10	6.55
v.d.Waerden	4.95	5.40	5.75	5.20	6.20	6.40	6.25	6.85	6.80	7.35
ATS	5.10	5.25	5.55	5.00	6.50	6.25	6.50	6.45	6.20	6.75

6.1.2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.50	5.05	4.00	3.90	4.50	4.60	5.20	4.95	5.55	5.15
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.15	2.55	2.85	2.00	2.65	2.10	2.40	3.45	3.10	2.85
ART+INT	2.70	2.45	2.20	1.85	2.30	1.80	2.30	2.95	2.55	2.85
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.70	6.05	5.10	4.10	5.25	4.60	6.20	4.95	4.75	4.50
RT	5.95	5.30	4.75	3.95	5.00	4.55	5.35	4.80	4.10	3.80
INT	6.40	5.45	5.00	4.40	4.95	5.25	5.95	5.15	4.80	4.10
ART	4.45	3.55	3.45	2.80	3.35	3.00	3.55	3.55	2.45	2.90
ART+INT	3.30	3.00	2.70	2.25	2.60	2.05	3.00	2.50	2.20	1.95
Puri & Sen	5.35	5.25	4.70	3.85	4.95	4.35	5.25	4.80	4.00	3.80
v.d.Waerden	5.60	5.35	4.80	4.45	4.95	5.10	5.85	5.10	4.65	4.05
ATS	5.55	5.05	4.35	3.80	4.80	4.40	5.55	4.65	3.70	3.75

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.45	5.30	4.35	3.25	4.20	3.90	5.15	4.05	3.05	3.30
RT	5.40	4.70	4.30	3.55	4.35	4.30	4.90	4.60	3.65	3.65
INT	5.70	4.80	4.20	3.50	4.45	4.05	5.15	4.35	3.60	3.75
ART	6.65	5.25	4.50	4.15	4.60	4.30	5.10	4.70	3.80	3.90
ART+INT	4.40	2.80	2.95	2.45	2.55	2.45	3.40	2.70	2.45	2.00
Puri & Sen	4.70	4.60	4.10	3.50	4.25	4.25	4.75	4.40	3.45	3.55
v.d.Waerden	4.95	4.20	3.95	3.40	4.15	3.85	5.05	4.25	3.45	3.50
ATS	5.20	4.75	4.35	3.70	4.60	4.40	5.05	4.55	3.60	3.65

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.90	5.75	5.55	5.00	5.85	6.30	6.30	6.70	5.95	6.55
RT	5.75	5.85	5.65	5.80	6.55	7.60	7.75	9.05	8.40	8.15
INT	5.65	6.25	6.60	6.00	7.20	7.90	8.05	9.25	8.65	8.55
ART	3.15	3.35	3.75	3.60	4.55	3.85	4.95	5.95	5.55	5.20
ART+INT	2.85	3.05	3.40	3.35	3.75	3.65	4.15	5.15	4.40	4.90
Puri & Sen	5.20	5.75	5.20	5.70	6.10	7.35	7.85	8.85	8.25	7.95
v.d.Waerden	5.40	6.05	6.35	5.85	7.05	7.80	8.00	9.20	8.65	8.40
ATS	4.60	4.75	4.85	5.15	5.85	6.55	7.15	8.00	7.40	7.35

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.45	8.35	7.55	7.90	8.05	7.60	7.80	8.15	7.00	7.80
RT	7.35	7.00	7.30	9.10	10.45	11.20	11.95	12.95	13.10	13.20
INT	8.60	8.95	8.85	10.70	11.90	12.95	14.20	16.25	15.75	16.60
ART	4.00	4.45	4.05	5.05	5.70	6.45	7.30	8.15	7.70	7.65
ART+INT	3.60	3.65	3.25	4.25	5.75	6.05	7.30	7.95	7.80	8.55
Puri & Sen	6.55	6.95	7.25	8.90	10.05	11.05	11.85	12.90	13.00	13.25
v.d.Waerden	7.45	8.80	8.75	10.70	11.60	12.80	13.80	16.10	15.45	16.30
ATS	5.90	6.30	6.20	7.50	8.90	9.10	10.40	11.30	11.10	11.95

6.1.3 Factor B - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.75	5.10	5.80	5.00	4.70	5.95	5.50	5.00	5.30	5.60
RT	4.70	5.30	5.10	4.75	4.70	5.20	5.65	4.90	4.65	5.00
INT	4.65	5.15	5.55	4.50	4.70	5.50	5.35	5.15	4.95	5.25
ART	5.10	5.40	5.15	5.15	4.40	5.15	5.20	4.80	4.85	4.80
ART+INT	4.40	5.00	5.35	4.35	4.65	5.50	4.95	5.05	4.95	5.05
Puri & Sen	4.45	5.20	4.95	4.75	4.60	5.10	5.45	4.85	4.55	4.95
v.d.Waerden	4.50	4.95	5.45	4.30	4.65	5.45	5.20	5.05	4.90	5.25
ATS	4.20	5.10	5.10	4.75	4.70	5.10	5.60	4.85	4.60	5.00

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.65	5.25	4.65	4.75	4.85	5.30	4.80	5.30	5.30	5.05
RT	5.95	6.45	6.05	6.30	6.55	7.95	9.40	8.05	8.25	9.15
INT	5.30	6.10	5.65	6.15	6.60	7.55	8.60	7.05	7.40	8.10
ART	5.85	6.65	5.95	6.40	6.70	7.85	9.20	7.60	8.05	9.00
ART+INT	5.25	5.80	5.45	6.15	6.45	7.40	8.80	6.70	7.30	8.00
Puri & Sen	4.95	6.10	5.75	5.90	6.40	7.85	9.15	7.95	8.20	9.10
v.d.Waerden	4.55	5.75	5.40	5.90	6.55	7.50	8.70	7.10	7.25	8.00
ATS	4.80	6.10	5.75	6.15	6.40	7.70	9.05	7.75	8.05	9.10

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.60	5.65	6.70	6.65	6.60	5.85	6.10	6.90	5.85	5.85
RT	10.35	16.80	23.90	31.20	38.35	42.05	51.60	57.90	61.50	67.30
INT	9.50	14.65	20.65	28.35	32.85	37.60	46.95	52.85	56.55	60.95
ART	8.35	12.95	19.85	27.40	33.45	38.05	47.80	54.15	57.70	63.05
ART+INT	7.20	10.85	16.80	23.05	28.10	33.40	41.85	49.00	51.65	57.15
Puri & Sen	9.65	16.45	23.60	31.20	38.10	41.90	51.30	57.95	61.55	67.30
v.d.Waerden	8.80	14.20	20.20	28.15	32.65	37.45	46.90	52.70	56.25	60.90
ATS	9.00	15.50	22.75	29.80	36.95	40.90	49.95	57.10	60.50	65.85

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	5.05	4.50	4.20	4.70	4.45	5.70	4.40	5.10	5.75
RT	5.95	5.60	5.65	4.65	4.80	5.75	6.05	4.90	5.75	7.45
INT	5.85	5.60	5.15	4.75	4.65	5.65	6.90	5.20	5.90	7.55
ART	6.30	6.20	5.95	5.15	5.35	6.20	6.50	5.25	6.30	7.55
ART+INT	5.65	5.55	5.40	4.35	4.65	5.50	6.40	5.15	6.10	7.45
Puri & Sen	5.05	5.20	5.25	4.60	4.65	5.60	5.85	4.80	5.55	7.20
v.d.Waerden	5.30	5.15	4.95	4.40	4.55	5.45	6.65	5.05	5.85	7.50
ATS	5.30	5.20	5.40	4.45	4.65	5.70	6.00	4.90	5.60	7.35

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.50	6.10	4.10	5.05	5.35	5.00	5.00	5.10	5.90	5.05
RT	5.65	8.45	7.50	9.60	9.90	11.80	14.80	13.85	15.80	16.85
INT	5.35	7.50	7.10	8.75	9.15	11.05	13.25	12.60	14.60	15.50
ART	6.45	8.35	8.05	9.95	10.30	12.30	14.45	14.15	16.10	17.30
ART+INT	5.65	7.10	6.50	8.60	9.40	10.10	12.85	12.15	14.25	14.95
Puri & Sen	5.30	7.75	7.10	9.20	9.60	11.60	14.35	13.70	15.25	16.70
v.d.Waerden	5.05	7.10	6.65	8.65	9.00	10.80	12.90	12.35	14.10	15.15
ATS	4.60	7.70	7.00	8.90	9.85	11.15	14.25	13.50	15.35	16.40

6.1.4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.65	5.25	4.85	4.90	5.90	4.95	4.70	5.10	5.35	5.65
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	3.30	2.90	2.40	3.10	2.85	2.40	1.85	2.50	2.40	2.35
ART+INT	2.35	2.55	2.20	2.40	2.60	2.75	2.00	2.40	2.55	2.30
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.05	6.00	5.75	5.25	5.55	4.75	5.60	5.50	5.70	5.05
RT	6.50	6.95	7.45	9.85	11.35	11.75	12.75	14.25	16.10	16.30
INT	6.25	7.55	8.30	8.85	10.70	9.95	11.55	13.10	14.70	14.45
ART	3.70	3.95	4.80	6.35	5.35	7.20	8.75	10.20	11.65	11.75
ART+INT	3.05	3.45	3.85	5.15	5.05	6.25	7.25	8.85	10.25	10.00
Puri & Sen	5.65	6.45	7.50	9.75	11.20	11.35	12.65	14.25	15.95	16.10
v.d.Waerden	5.85	7.10	8.25	8.60	10.55	10.00	11.45	13.10	14.75	14.45
ATS	5.15	6.55	7.30	8.75	10.15	10.20	11.60	12.40	13.45	13.15

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.50	6.15	6.55	5.40	5.70	4.50	5.90	5.75	5.20	4.85
RT	10.55	15.70	22.70	27.75	34.80	39.15	47.25	54.50	59.00	64.85
INT	8.45	13.85	19.40	23.80	29.45	33.45	40.45	46.95	51.85	57.70
ART	5.65	9.15	15.30	20.70	27.50	31.80	40.50	45.40	52.60	58.65
ART+INT	4.65	7.25	12.25	16.90	21.10	26.05	33.60	38.25	45.20	52.15
Puri & Sen	9.95	15.40	22.25	27.70	34.45	38.70	47.20	54.35	58.70	64.65
v.d.Waerden	8.35	13.60	19.10	23.70	29.30	33.25	39.95	46.85	51.90	57.65
ATS	6.80	12.35	18.70	23.70	29.50	33.70	39.25	47.80	52.35	57.20

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.45	6.90	6.75	6.85	6.25	6.55	5.40	6.70	6.40	6.55
RT	5.95	6.90	6.90	7.90	7.95	8.50	8.60	11.85	11.05	10.70
INT	5.95	6.75	7.90	8.70	8.50	9.40	9.80	11.70	12.40	11.80
ART	2.95	4.55	4.35	4.40	5.10	4.75	4.60	6.80	6.50	6.90
ART+INT	2.40	3.50	3.60	4.25	3.85	4.55	4.25	5.80	6.10	6.30
Puri & Sen	5.65	6.50	6.55	7.80	7.60	8.30	8.60	11.85	10.90	10.65
v.d.Waerden	5.75	6.60	7.70	8.55	8.35	9.30	9.70	11.50	11.90	11.75
ATS	4.00	6.00	5.40	6.80	6.95	6.60	7.10	8.95	8.90	8.50

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.30	7.90	8.65	7.50	8.05	8.05	8.25	7.90	7.20	8.65
RT	5.75	7.15	7.15	8.05	8.75	10.75	10.60	11.50	11.95	14.30
INT	6.35	8.35	8.75	9.80	11.10	12.10	12.30	13.50	13.45	17.10
ART	2.95	4.60	4.40	5.25	5.65	7.15	6.30	7.80	8.25	9.15
ART+INT	2.45	3.60	3.65	4.35	5.35	6.30	6.65	7.25	7.80	9.70
Puri & Sen	5.10	6.80	6.95	7.85	8.50	10.65	10.45	11.15	11.75	14.15
v.d.Waerden	5.75	7.95	8.40	9.45	10.55	11.85	12.20	13.35	13.25	16.90
ATS	4.55	6.10	5.80	6.05	6.80	9.65	8.95	8.60	9.00	11.10

6. 1. 5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.50	4.85	5.15	5.20	5.00	5.15	5.25	5.45	5.25	4.85
RT	4.90	3.95	4.90	5.10	4.80	5.05	4.75	5.35	4.95	4.65
INT	4.75	4.45	4.80	5.00	5.15	4.45	4.90	5.95	4.90	4.75
ART	4.05	4.60	5.00	4.90	4.75	5.25	4.75	5.25	5.10	4.90
ART+INT	4.75	4.50	5.15	4.90	5.00	4.45	4.90	5.75	5.05	4.90
Puri & Sen	3.40	3.60	4.60	4.85	4.65	4.85	4.55	5.30	4.60	4.50
v.d.Waerden	3.35	3.90	4.65	4.70	5.05	4.25	4.80	5.75	4.90	4.70
ATS	3.25	3.75	4.65	4.95	4.70	5.00	4.60	5.35	4.80	4.55

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.35	5.45	5.40	5.05	4.00	4.80	5.25	5.15	4.75	4.35
RT	5.85	5.10	5.45	5.40	4.60	4.15	5.10	4.85	5.70	5.05
INT	5.80	5.00	5.45	5.15	4.55	4.30	5.05	4.95	5.10	5.00
ART	6.10	5.70	5.45	5.35	4.75	4.40	5.30	5.45	5.70	5.10
ART+INT	6.05	5.50	5.45	5.05	4.60	4.20	5.15	4.80	4.95	4.80
Puri & Sen	5.15	4.75	5.05	5.35	4.45	4.15	5.10	4.75	5.55	5.00
v.d.Waerden	5.30	4.55	5.15	4.95	4.35	4.15	4.75	4.90	4.95	4.95
ATS	5.35	5.45	5.40	5.05	4.00	4.80	5.25	5.15	4.75	4.35

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.55	5.50	6.10	6.45	5.80	6.45	7.25	7.25	7.05	6.40
RT	5.85	5.20	6.05	5.75	5.10	5.00	6.35	6.00	6.10	4.85
INT	6.45	5.05	6.05	6.00	6.00	5.20	6.85	6.70	6.40	4.90
ART	6.95	6.40	6.85	7.25	6.00	6.35	7.05	7.10	7.15	5.70
ART+INT	6.25	5.95	6.70	6.50	5.65	5.50	6.65	6.85	6.45	5.10
Puri & Sen	4.15	4.30	5.35	5.15	4.60	4.60	6.00	5.65	5.80	4.45
v.d.Waerden	4.20	4.60	5.35	5.50	5.50	4.75	6.10	6.20	6.20	4.50
ATS	3.80	4.35	5.05	5.05	4.75	4.55	6.20	5.50	5.65	4.35

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	4.40	4.90	4.75	5.35	5.30	4.20	5.20	3.90	3.80
RT	6.00	4.70	6.30	5.70	5.20	5.85	5.45	6.15	6.20	5.00
INT	5.65	4.70	5.80	5.70	5.90	5.90	5.50	5.70	5.65	5.05
ART	6.10	5.30	6.30	5.80	5.55	6.15	5.75	6.15	6.25	5.40
ART+INT	5.75	4.65	5.80	5.90	5.75	5.70	5.25	5.60	5.45	4.65
Puri & Sen	5.00	4.35	5.75	5.55	5.00	5.85	5.10	5.80	6.10	5.00
v.d.Waerden	5.10	4.10	5.45	5.60	5.75	5.75	5.40	5.55	5.40	4.70
ATS	5.00	4.45	6.15	5.60	5.05	5.80	5.35	6.00	6.05	5.00

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	5.25	5.15	5.95	4.95	4.9	5.30	5.70	5.85	5.05
RT	5.65	6.45	6.20	6.95	8.15	7.9	9.40	10.05	9.75	9.85
INT	5.65	6.35	6.25	6.70	8.05	8.2	8.30	9.90	8.90	9.80
ART	6.20	6.90	7.40	7.75	9.25	8.4	9.95	11.00	10.10	10.45
ART+INT	5.40	6.00	6.30	6.80	7.85	7.8	8.25	9.90	8.85	9.95
Puri & Sen	4.75	5.65	5.90	6.65	7.85	7.5	9.15	9.90	9.40	9.40
v.d.Waerden	4.65	5.80	5.80	6.50	7.70	8.0	8.00	9.45	8.75	9.65
ATS	4.50	5.95	6.10	6.90	8.00	7.8	9.25	10.00	9.70	9.60

6.1.6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.80	4.80	5.60	4.70	5.40	5.70	4.45	5.00	4.80	4.75
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	4.80	4.70	4.25	4.45	5.00	5.45	4.50	4.60	4.65	4.80
ART+INT	5.25	4.95	4.95	4.45	5.25	5.70	4.20	4.90	4.80	4.70
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.35	6.10	6.00	5.45	6.05	6.05	6.15	6.10	5.00	5.40
RT	4.90	5.30	5.90	4.40	5.80	5.30	6.00	5.65	5.75	5.65
INT	5.70	5.45	6.05	5.40	6.20	5.70	6.20	5.55	5.90	5.65
ART	5.60	5.60	6.25	5.00	6.20	5.45	6.30	5.85	6.25	5.55
ART+INT	5.85	5.70	5.80	5.10	6.05	5.85	5.95	5.55	5.80	5.70
Puri & Sen	3.75	4.55	5.55	4.15	5.50	5.05	5.65	5.30	5.60	5.65
v.d.Waerden	4.25	4.70	5.45	5.00	5.80	5.45	5.80	5.35	5.80	5.35
ATS	4.80	4.25	5.75	4.85	6.60	5.50	5.45	5.30	5.80	5.20

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.20	5.90	6.00	5.65	5.95	6.10	5.90	6.20	4.90	5.60
RT	4.85	5.00	5.85	4.90	5.55	5.20	5.60	5.75	5.50	5.55
INT	5.85	5.10	5.30	5.25	5.40	5.65	5.55	6.05	5.40	5.25
ART	6.40	5.95	7.20	5.95	6.90	6.05	6.45	6.70	6.50	6.05
ART+INT	6.00	5.20	5.35	5.10	5.75	5.50	5.50	5.95	5.70	5.35
Puri & Sen	3.25	4.05	5.30	4.25	4.75	4.70	5.25	5.35	4.90	5.25
v.d.Waerden	3.90	4.45	4.85	4.70	4.80	5.15	5.20	5.70	5.05	5.10
ATS	4.10	4.50	5.90	4.80	5.80	5.25	5.20	5.60	5.65	4.95

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.65	7.45	8.25	7.40	7.35	7.55	7.35	6.60	7.10	8.00
RT	5.65	5.55	6.40	6.70	6.45	7.55	6.45	6.75	7.70	8.10
INT	6.45	6.35	8.20	7.70	7.40	8.00	7.25	7.80	8.65	8.70
ART	6.15	6.05	7.15	7.35	7.20	8.50	7.10	7.10	8.20	8.05
ART+INT	7.40	6.45	8.00	7.75	7.15	7.95	6.75	7.80	8.55	8.70
Puri & Sen	3.65	4.70	5.95	6.25	5.80	7.25	6.15	6.50	7.50	7.60
v.d.Waerden	4.80	5.75	7.30	7.15	6.95	7.75	6.95	7.50	8.55	8.55
ATS	4.10	4.00	4.90	5.10	4.80	5.75	4.90	5.05	6.15	5.65

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.95	8.95	8.90	9.55	8.90	9.60	9.60	8.70	9.70	9.40
RT	6.70	7.25	6.85	8.20	8.35	10.50	10.75	10.55	10.95	12.00
INT	8.05	8.65	9.40	10.10	10.75	12.95	14.45	13.70	14.20	15.90
ART	7.95	8.40	7.80	8.70	9.80	11.65	12.00	12.05	12.25	13.55
ART+INT	8.45	8.85	9.20	10.35	10.65	12.85	14.75	14.10	14.00	15.65
Puri & Sen	5.40	6.50	6.50	7.30	7.90	10.25	10.35	10.20	10.80	11.90
v.d.Waerden	6.35	7.80	8.75	9.10	10.25	12.50	14.20	13.40	13.75	15.10
ATS	4.25	5.75	5.55	6.20	5.90	7.65	7.95	7.50	8.50	9.00

6. 2. Type I error rates - Parameters 0.0 / 0.50

6. 2. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	4.50	5.00	4.60	5.15	4.25	5.30	5.25	4.50	4.70
RT	4.50	4.20	4.50	4.50	5.40	4.25	5.10	5.60	4.60	5.15
INT	4.70	4.45	4.65	4.45	5.05	4.25	5.75	5.55	4.50	5.25
ART	5.50	4.65	4.40	4.85	5.60	4.70	4.90	5.70	4.60	5.80
ART+INT	4.50	4.05	4.10	4.35	4.55	4.15	5.35	5.05	4.10	4.85
Puri & Sen	4.55	3.85	4.40	4.45	5.10	4.20	5.10	5.60	4.55	5.10
v.d.Waerden	4.45	4.10	4.55	4.40	5.10	4.25	5.65	5.55	4.45	5.20
ATS	4.35	4.00	4.45	4.45	5.30	4.20	5.10	5.60	4.55	5.15

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.40	4.35	4.85	5.70	4.85	4.75	5.85	4.70	4.75	5.50
RT	4.80	4.75	4.75	5.40	5.10	4.85	5.60	4.70	4.30	5.15
INT	5.25	4.70	4.50	5.40	5.05	5.15	5.85	4.60	4.50	4.60
ART	6.20	5.30	5.40	5.95	5.45	5.00	6.05	4.75	5.15	4.75
ART+INT	4.70	4.45	4.05	5.05	4.15	4.40	4.95	4.20	4.00	4.40
Puri & Sen	4.85	4.55	4.75	5.35	5.05	4.85	5.60	4.60	4.25	5.15
v.d.Waerden	4.70	4.75	4.40	5.15	4.95	5.00	5.65	4.65	4.55	4.60
ATS	4.70	4.70	4.70	5.40	5.10	4.85	5.60	4.70	4.30	5.15

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.30	4.10	4.65	5.10	4.85	4.30	5.95	4.25	4.50	5.35
RT	5.15	4.65	4.55	5.25	5.00	4.90	5.65	4.65	4.20	5.05
INT	5.20	4.95	4.70	5.55	5.05	4.75	5.75	4.60	4.65	4.70
ART	7.85	6.05	6.35	6.75	5.90	5.55	6.70	5.25	5.40	5.30
ART+INT	5.40	4.40	4.10	4.80	3.65	4.30	4.30	3.65	3.60	3.70
Puri & Sen	4.80	4.15	4.30	5.15	4.50	4.60	5.35	4.45	4.05	4.55
v.d.Waerden	4.35	4.55	4.45	5.35	4.95	4.45	5.55	4.30	4.35	4.55
ATS	4.90	4.60	4.55	5.25	4.95	4.85	5.65	4.65	4.20	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.75	5.00	4.55	5.95	4.70	4.60	4.70	5.10	4.50	5.80
RT	5.50	6.50	6.55	8.40	8.95	9.35	10.30	12.30	11.90	13.45
INT	5.25	6.50	6.85	8.95	9.45	10.00	10.50	12.85	13.55	14.45
ART	5.40	6.65	5.90	8.30	8.90	8.80	10.00	12.25	11.45	13.25
ART+INT	4.40	5.55	5.80	7.90	8.10	8.50	9.45	11.95	11.55	13.40
Puri & Sen	5.50	6.50	6.30	8.30	8.85	9.30	10.10	12.40	11.65	13.50
v.d.Waerden	5.25	6.55	6.75	8.95	9.35	10.00	10.30	12.90	13.25	14.25
ATS	5.40	6.50	6.45	8.40	8.95	9.35	10.30	12.30	11.90	13.45

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.90	5.05	4.95	4.55	5.00	4.65	5.85	4.80	4.90
RT	5.55	5.35	6.05	5.75	7.10	6.80	7.10	8.25	7.95	8.80
INT	5.70	6.00	6.50	6.65	7.95	8.20	7.85	10.20	9.60	10.55
ART	7.60	6.80	6.75	6.15	7.65	7.20	8.05	8.80	8.30	8.95
ART+INT	5.45	4.85	5.60	5.25	6.20	6.35	6.40	7.95	7.55	8.25
Puri & Sen	5.30	5.10	5.90	5.40	6.90	6.60	6.70	7.85	7.70	8.15
v.d.Waerden	5.20	5.60	6.15	6.35	7.85	7.90	7.50	9.85	8.95	10.10
ATS	5.35	5.30	6.00	5.75	7.10	6.80	7.10	8.25	7.95	8.80

6. 2. 2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.30	4.20	3.55	4.45	4.75	4.95	4.85	5.40	5.05
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.75	3.10	3.20	2.55	3.30	2.45	2.75	3.95	3.55	3.55
ART+INT	2.40	2.20	2.30	1.85	2.80	2.05	2.30	3.10	3.10	3.20
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.80	6.05	5.15	4.35	5.80	4.95	5.90	5.15	4.70	4.45
RT	5.65	5.35	4.70	4.05	4.95	4.45	5.45	4.85	4.10	3.85
INT	6.05	5.70	4.90	4.35	5.10	5.15	5.95	5.15	4.70	4.00
ART	5.30	4.10	4.05	3.25	4.15	3.55	3.65	4.05	3.00	3.15
ART+INT	3.10	2.55	3.00	2.60	3.00	2.40	2.95	2.90	2.10	2.55
Puri & Sen	5.10	5.05	4.65	3.75	4.85	4.35	5.30	4.80	3.85	3.80
v.d.Waerden	5.65	5.25	4.80	4.20	4.90	4.90	5.75	5.05	4.50	4.00
ATS	5.75	4.85	4.50	3.95	4.85	4.45	5.55	4.90	3.65	3.85

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.65	4.85	4.60	3.50	4.40	3.95	4.95	4.20	3.90	3.50
RT	5.30	4.95	4.55	3.65	4.30	4.55	5.05	4.85	3.90	3.85
INT	5.50	4.60	4.20	3.80	4.55	4.05	5.45	4.50	3.70	3.65
ART	8.60	6.65	5.80	4.90	6.10	5.25	6.05	5.80	4.65	4.65
ART+INT	4.40	3.30	3.20	2.35	3.20	2.40	3.05	3.05	2.75	2.85
Puri & Sen	4.70	4.25	4.30	3.45	4.20	4.20	4.60	4.35	3.20	3.50
v.d.Waerden	4.60	4.00	3.70	3.20	4.15	3.80	4.95	3.90	3.30	3.40
ATS	5.15	4.95	4.40	3.75	4.45	4.65	5.20	4.65	3.55	3.65

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	5.50	5.90	4.85	5.95	5.70	5.80	6.05	5.90	5.95
RT	5.95	6.95	7.25	8.15	9.35	9.85	12.20	13.10	14.65	14.55
INT	6.15	7.65	8.00	8.60	10.00	10.75	12.70	13.85	14.55	15.20
ART	4.00	4.15	4.85	5.65	6.65	6.85	8.20	11.05	10.45	9.80
ART+INT	2.75	3.10	3.90	4.75	5.45	5.85	7.85	9.95	9.85	10.20
Puri & Sen	5.60	6.65	7.05	7.80	9.20	9.80	12.10	12.85	14.65	14.35
v.d.Waerden	5.25	7.50	7.55	8.25	9.85	10.35	12.25	13.55	14.20	14.95
ATS	4.55	5.70	6.30	7.00	8.45	9.00	10.55	11.50	12.75	13.20

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.25	7.55	6.90	7.45	7.40	7.20	7.05	8.35	6.95	7.55
RT	8.20	10.30	11.15	14.60	18.05	21.10	22.75	25.80	26.40	30.15
INT	9.65	11.95	13.40	17.60	21.90	24.95	28.25	31.55	32.45	38.35
ART	5.40	6.10	6.30	8.55	11.25	12.60	15.20	18.05	19.40	21.85
ART+INT	3.65	4.55	4.80	7.50	10.90	12.65	16.35	19.30	22.35	24.60
Puri & Sen	7.75	9.60	10.80	14.25	17.45	20.60	22.30	25.45	26.05	29.85
v.d.Waerden	8.60	11.35	13.10	17.05	21.35	24.25	27.70	30.90	31.95	37.35
ATS	6.90	8.75	9.70	12.30	16.50	19.30	20.55	23.40	24.50	27.85

6. 2. 3 Factor B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.40	4.65	6.05	5.20	5.05	6.10	5.05	5.20	5.05	5.80
RT	4.70	5.30	5.10	4.75	4.70	5.20	5.65	4.90	4.65	5.00
INT	4.65	5.15	5.55	4.50	4.70	5.50	5.35	5.15	4.95	5.25
ART	5.65	5.70	5.70	5.35	4.80	5.10	5.15	4.80	5.10	4.80
ART+INT	3.90	4.25	4.90	4.10	4.15	4.75	4.50	4.70	4.50	4.75
Puri & Sen	4.45	5.20	4.95	4.75	4.60	5.10	5.45	4.85	4.55	4.95
v.d.Waerden	4.50	4.95	5.45	4.30	4.65	5.45	5.20	5.05	4.90	5.25
ATS	4.20	5.10	5.10	4.75	4.70	5.10	5.60	4.85	4.60	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.45	4.55	4.65	4.35	4.75	5.00	4.80	5.20	5.25	5.25
RT	6.60	8.10	8.70	9.15	11.45	13.10	15.85	16.00	17.90	19.10
INT	5.80	7.95	7.65	8.75	10.30	11.50	13.75	14.00	15.50	16.85
ART	5.85	8.05	8.60	8.95	10.10	11.80	15.25	14.95	17.10	18.15
ART+INT	4.50	6.55	6.40	7.25	8.80	10.40	12.95	12.60	13.90	15.15
Puri & Sen	5.55	8.00	8.55	8.95	11.30	12.75	15.70	15.65	17.75	19.00
v.d.Waerden	5.25	7.50	7.35	8.60	10.05	11.30	13.35	13.75	15.35	16.55
ATS	5.80	7.80	8.40	8.95	11.05	12.75	15.40	15.60	17.60	18.65

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.25	5.70	5.45	5.50	5.50	5.25	4.80	5.45	5.65
RT	10.85	17.30	24.55	30.25	36.85	45.50	53.45	58.65	63.90	67.80
INT	10.15	16.20	21.70	25.90	32.95	39.95	46.85	52.20	57.60	63.65
ART	9.35	15.25	20.70	26.10	32.10	40.20	48.50	53.40	58.95	64.25
ART+INT	6.40	11.75	17.35	20.45	27.80	34.50	41.65	45.85	51.90	59.00
Puri & Sen	9.50	16.35	24.05	29.80	36.45	45.15	53.35	58.30	63.55	67.60
v.d.Waerden	8.95	15.10	21.10	25.65	32.25	39.80	46.50	51.70	57.55	63.35
ATS	9.05	16.10	23.45	29.25	35.75	44.60	52.75	57.65	63.05	67.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.40	4.40	4.30	4.25	4.60	4.40	5.65	4.25	4.80	5.70
RT	6.10	5.90	6.65	5.95	6.15	7.80	8.35	7.30	8.20	9.55
INT	6.25	5.70	6.20	5.80	6.05	7.50	8.20	8.10	8.65	10.30
ART	6.30	5.90	6.55	6.25	6.25	7.40	8.35	7.40	8.30	9.45
ART+INT	5.40	5.25	5.50	4.90	5.30	6.75	7.60	7.10	8.15	9.45
Puri & Sen	5.40	5.65	6.25	5.55	5.90	7.55	8.15	7.15	7.85	9.40
v.d.Waerden	5.50	5.30	5.90	5.55	5.80	7.10	7.90	7.80	8.55	9.95
ATS	5.20	5.75	6.35	5.85	6.10	7.70	8.25	7.30	8.10	9.45

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	5.25	4.15	5.10	5.20	5.25	4.90	5.00	5.45	5.20
RT	7.60	11.20	14.70	17.90	21.65	26.65	33.35	34.65	40.25	42.25
INT	6.95	10.90	13.40	16.70	20.25	25.65	31.30	32.25	37.05	39.80
ART	7.75	10.15	12.40	16.30	19.35	24.80	30.50	32.40	37.30	39.65
ART+INT	5.55	8.30	10.65	13.70	16.45	22.25	27.00	28.45	32.45	35.70
Puri & Sen	6.65	10.40	13.80	17.15	21.15	26.35	32.55	34.10	39.75	41.75
v.d.Waerden	6.45	10.10	12.40	16.20	19.75	25.10	30.85	31.95	36.10	39.15
ATS	6.30	10.65	14.00	17.25	20.95	26.30	32.65	34.35	39.55	41.60

6. 2. 4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.50	5.40	4.45	5.75	4.70	4.80	5.15	5.90	5.00
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	3.70	3.15	2.45	3.05	3.20	3.05	2.35	3.10	2.70	3.05
ART+INT	2.30	2.15	1.75	2.45	2.45	2.95	2.25	2.85	2.60	2.90
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.55	5.80	5.40	5.55	5.30	4.80	5.10	5.75	5.10	5.30
RT	7.65	12.25	16.65	20.40	24.80	26.95	32.15	37.25	41.20	44.40
INT	7.30	11.90	15.65	19.00	22.60	26.00	29.15	34.75	38.70	41.90
ART	5.05	6.80	9.85	14.30	16.70	20.90	25.85	29.20	35.05	39.20
ART+INT	2.95	5.00	7.80	12.45	14.95	18.05	23.85	26.70	33.50	36.55
Puri & Sen	7.45	11.60	16.25	20.10	24.60	26.85	31.95	36.95	40.75	44.05
v.d.Waerden	7.10	11.60	15.15	18.60	22.35	25.50	28.90	34.50	38.40	41.55
ATS	6.30	9.95	13.60	17.05	21.65	23.95	27.45	32.20	35.55	38.95

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.00	6.60	6.25	6.00	5.65	5.15	5.65	5.50	4.95	5.50
RT	19.25	35.30	51.70	65.80	78.20	85.80	91.35	94.10	96.40	98.20
INT	17.05	32.90	47.65	61.90	73.75	82.40	89.00	92.80	95.35	97.55
ART	11.60	20.65	35.80	50.25	64.00	76.20	84.10	89.55	93.80	96.35
ART+INT	7.80	16.05	30.60	44.10	58.15	70.90	80.50	86.65	92.00	95.20
Puri & Sen	18.15	34.60	51.15	65.50	77.70	85.55	91.20	94.00	96.35	98.20
v.d.Waerden	16.30	31.80	47.40	61.75	73.75	82.20	88.90	92.65	95.30	97.45
ATS	11.60	27.80	43.95	57.80	72.05	80.20	87.80	91.65	94.70	97.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.30	6.90	6.60	6.75	6.70	6.25	5.90	7.30	6.25	6.15
RT	6.70	8.90	10.45	12.85	14.65	15.60	17.80	20.55	23.20	25.50
INT	6.90	9.15	11.20	13.45	14.95	16.45	20.00	22.65	24.55	27.05
ART	3.90	5.55	6.35	8.20	9.00	11.10	12.05	14.85	16.15	18.95
ART+INT	2.50	3.85	4.90	7.60	7.60	9.70	11.95	14.35	15.25	18.75
Puri & Sen	6.30	8.85	9.75	12.65	14.30	15.10	17.45	20.35	23.05	24.95
v.d.Waerden	6.30	8.80	10.85	13.00	14.55	16.10	19.65	22.45	24.45	26.85
ATS	4.25	7.35	7.80	9.90	11.20	12.30	14.10	16.90	17.75	19.70

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.80	7.60	8.10	7.25	7.60	7.55	7.90	7.70	6.95	8.15
RT	6.55	9.30	10.85	13.15	16.30	18.45	19.95	22.65	23.20	28.85
INT	7.55	11.65	13.55	15.50	19.60	21.80	24.75	27.50	29.50	34.85
ART	4.45	5.60	6.20	8.30	11.05	13.35	14.60	16.25	18.95	20.95
ART+INT	2.85	3.95	4.75	7.70	10.55	12.65	14.90	16.50	19.35	22.20
Puri & Sen	6.00	8.90	10.25	12.60	15.80	18.05	19.50	22.05	22.90	28.35
v.d.Waerden	6.75	10.55	12.85	14.65	18.90	21.20	23.90	26.85	28.60	33.90
ATS	5.15	8.25	8.50	9.90	12.35	15.40	15.75	16.60	18.20	23.30

6. 2. 5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.55	4.90	5.25	5.60	4.80	4.85	5.65	5.55	4.90	4.95
RT	4.90	3.95	4.90	5.10	4.80	5.05	4.75	5.35	4.95	4.65
INT	4.75	4.45	4.80	5.00	5.15	4.45	4.90	5.95	4.90	4.75
ART	4.60	4.60	5.40	5.10	4.80	4.85	4.85	5.35	5.10	4.95
ART+INT	4.80	5.00	5.30	4.85	5.05	4.65	4.75	6.00	5.10	4.80
Puri & Sen	3.40	3.60	4.60	4.85	4.65	4.85	4.55	5.30	4.60	4.50
v.d.Waerden	3.35	3.90	4.65	4.70	5.05	4.25	4.80	5.75	4.90	4.70
ATS	3.25	3.75	4.65	4.95	4.70	5.00	4.60	5.35	4.80	4.55

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.80	5.20	4.55	4.75	3.85	4.95	4.70	4.85	4.35	4.35
RT	5.55	4.85	5.65	5.35	4.70	4.15	5.15	4.65	5.45	4.95
INT	5.80	5.15	5.45	5.05	4.45	4.20	4.70	4.95	4.95	5.00
ART	6.75	5.85	5.75	5.70	4.55	4.35	5.50	4.80	5.40	4.90
ART+INT	6.00	5.65	5.40	5.45	4.15	4.20	5.50	4.55	4.65	4.60
Puri & Sen	5.00	4.80	5.20	5.30	4.50	4.15	5.05	4.55	5.30	4.90
v.d.Waerden	5.30	4.60	4.85	4.80	4.40	4.00	4.60	4.90	4.95	4.90
ATS	4.95	4.75	5.40	5.30	4.55	4.15	5.10	4.55	5.40	4.95

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.25	4.70	4.65	5.15	4.20	5.20	5.40	4.70	4.75	4.85
RT	6.00	5.10	5.30	4.80	4.95	4.45	5.40	4.95	5.30	5.20
INT	6.40	5.20	5.65	4.65	5.30	4.65	5.65	5.10	4.90	5.25
ART	7.90	6.50	5.75	5.65	5.00	5.05	6.20	5.40	5.55	4.90
ART+INT	6.60	5.45	5.20	5.00	4.65	4.20	5.00	4.50	4.55	4.45
Puri & Sen	4.90	4.80	4.45	4.40	4.45	4.25	4.80	4.30	4.85	4.80
v.d.Waerden	5.60	4.65	5.15	4.30	4.65	4.45	5.10	4.65	4.70	4.95
ATS	5.30	4.80	5.20	4.80	4.70	4.30	5.20	4.85	5.25	5.15

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	4.05	4.60	4.65	5.25	5.50	3.75	4.55	4.10	3.75
RT	5.90	5.20	6.70	6.80	6.80	7.50	7.65	8.55	9.10	7.65
INT	6.10	5.40	6.75	6.80	6.80	7.75	7.80	8.50	8.55	8.20
ART	6.25	5.40	6.85	7.20	6.80	7.70	7.60	8.20	8.85	7.65
ART+INT	5.80	4.80	6.10	6.60	5.90	7.60	6.70	7.90	7.85	7.45
Puri & Sen	5.20	4.85	6.30	6.50	6.40	7.40	7.45	8.45	8.65	7.45
v.d.Waerden	5.20	4.95	6.40	6.65	6.55	7.55	7.65	8.30	8.50	7.80
ATS	5.20	5.05	6.50	6.70	6.60	7.50	7.55	8.55	9.00	7.55

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.65	4.95	5.85	4.95	4.40	5.00	4.85	5.20	4.95
RT	6.15	8.20	9.00	11.05	12.65	13.30	15.45	18.20	18.15	20.00
INT	6.00	8.05	9.05	10.45	12.95	13.95	14.80	17.95	18.65	20.05
ART	6.70	7.70	8.75	10.60	11.70	13.50	14.70	17.85	17.75	18.95
ART+INT	5.25	6.05	7.85	8.70	10.10	11.85	12.60	14.75	16.40	17.35
Puri & Sen	5.25	7.30	8.10	10.20	12.30	12.90	14.80	17.40	17.45	19.20
v.d.Waerden	5.15	7.15	8.15	9.60	12.20	13.20	14.00	17.00	17.90	19.25
ATS	5.30	7.80	8.70	11.00	12.65	13.25	15.30	18.15	18.10	19.90

6. 2. 6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.20	5.70	5.75	5.10	5.50	6.20	5.25	5.90	5.50	5.05
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	5.05	5.15	4.45	4.40	5.10	5.35	4.50	4.65	4.60	5.00
ART+INT	5.90	5.20	5.30	4.60	5.20	5.90	4.20	4.50	5.00	4.55
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.75	5.60	6.05	5.60	6.80	6.40	6.30	6.10	4.65	5.35
RT	4.95	5.30	6.05	4.35	5.80	5.35	5.90	5.65	5.60	5.50
INT	5.45	5.30	6.05	5.35	6.05	5.75	6.05	5.60	5.80	5.60
ART	5.95	5.85	5.95	5.30	6.20	5.45	5.90	5.55	5.85	5.45
ART+INT	5.85	5.55	5.65	5.00	5.85	5.80	5.50	5.00	5.25	5.45
Puri & Sen	3.60	4.65	5.35	4.10	5.35	4.80	5.50	5.25	5.30	5.35
v.d.Waerden	3.95	4.70	5.45	5.00	5.35	5.50	5.55	5.10	5.45	5.20
ATS	4.55	4.15	5.85	4.85	6.25	5.45	5.35	5.25	5.55	5.40

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.70	6.05	6.30	5.50	6.20	6.30	5.10	6.40	4.70	5.00
RT	5.45	4.90	5.90	4.85	5.30	4.85	5.55	5.80	5.45	5.50
INT	5.65	5.00	5.40	5.05	5.30	5.50	5.55	5.95	5.15	5.25
ART	6.30	6.45	6.60	5.75	6.50	5.80	6.00	5.95	6.00	5.60
ART+INT	5.45	5.45	5.05	4.30	5.15	5.05	4.75	4.40	4.60	4.90
Puri & Sen	2.80	3.55	5.15	3.95	4.20	4.20	4.75	4.70	4.25	4.90
v.d.Waerden	3.50	4.10	4.55	4.20	4.40	4.75	4.85	4.80	4.55	4.70
ATS	3.85	4.30	5.95	4.70	5.65	5.15	5.20	5.40	5.70	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.50	7.50	8.05	7.25	7.30	7.80	7.30	6.55	6.35	8.10
RT	5.75	6.30	7.25	7.90	7.70	9.70	9.10	9.40	10.90	11.15
INT	6.75	7.05	8.70	8.25	9.30	10.75	10.15	10.90	11.40	12.25
ART	7.05	6.25	7.65	8.30	8.55	9.90	9.15	9.40	10.65	11.25
ART+INT	7.20	6.70	8.10	8.40	8.40	9.60	9.40	9.65	10.65	11.35
Puri & Sen	4.20	5.35	6.25	7.35	7.10	9.15	8.75	8.85	10.45	10.50
v.d.Waerden	4.60	5.90	7.95	7.45	8.50	10.35	9.55	10.30	11.00	11.45
ATS	4.05	4.35	5.40	6.35	5.80	7.40	6.55	7.30	8.20	8.40

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.00	7.85	7.95	8.85	8.20	8.25	8.95	7.65	9.05	8.95
RT	7.45	8.80	9.75	11.85	13.25	16.65	18.55	20.00	21.90	24.10
INT	8.35	11.25	12.70	15.10	17.85	21.35	25.35	25.65	26.90	31.90
ART	8.25	9.30	10.25	12.45	13.80	17.15	19.30	20.15	22.15	25.05
ART+INT	8.50	9.50	10.45	13.15	15.40	18.60	21.80	22.75	24.50	28.50
Puri & Sen	5.50	7.45	8.80	11.10	12.80	16.10	17.85	19.55	21.20	23.10
v.d.Waerden	6.25	9.55	11.30	13.90	16.90	20.45	24.50	24.95	26.10	31.10
ATS	4.40	7.00	6.85	9.40	10.15	12.85	14.05	15.80	16.65	19.30

6. 3. Type I error rates - Parameters 0.0 / 1.00

6. 3. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.25	5.75	4.75	4.20	4.40	4.75	4.90	4.40	5.65	5.20
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	10.55	8.15	7.85	7.75	8.90	8.00	8.55	10.10	9.85	10.65
ART+INT	5.10	3.30	3.30	3.65	5.70	5.85	6.50	9.20	9.85	10.70
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.20	3.60	3.80	5.10	4.15	4.10	4.90	4.40	4.60	4.50
RT	4.85	4.70	4.65	5.40	5.15	5.05	5.65	4.80	4.35	5.10
INT	5.15	4.75	4.45	5.25	4.85	5.10	5.75	4.80	4.40	4.75
ART	12.15	9.35	9.40	9.60	8.75	8.00	8.00	7.30	7.50	6.80
ART+INT	7.45	5.35	4.75	5.50	4.60	3.85	4.90	4.20	3.75	4.05
Puri & Sen	4.75	4.55	4.50	5.20	5.00	4.95	5.60	4.65	4.20	4.90
v.d.Waerden	4.80	4.55	4.40	5.25	4.75	4.90	5.80	4.65	4.30	4.60
ATS	4.70	4.70	4.65	5.40	5.10	5.05	5.65	4.80	4.35	5.10

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.05	3.35	3.70	4.75	3.85	3.90	4.80	4.40	4.40	4.10
RT	5.20	5.00	4.80	5.20	4.95	4.90	5.50	4.75	4.15	4.80
INT	5.10	5.00	4.85	5.35	4.95	4.85	5.80	4.70	4.50	4.70
ART	14.60	13.55	12.75	13.40	12.95	12.20	11.60	10.95	10.70	9.90
ART+INT	8.95	7.30	6.90	7.50	5.85	5.50	5.65	5.60	5.10	5.50
Puri & Sen	4.55	4.30	4.50	5.10	4.40	4.55	5.20	4.40	3.85	4.40
v.d.Waerden	4.20	4.45	4.45	5.25	4.85	4.70	5.50	4.35	4.35	4.50
ATS	5.05	4.90	4.80	5.20	4.95	4.90	5.50	4.75	4.15	4.80

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.90	4.35	4.20	4.65	4.40	4.80	4.30	4.95	4.10	5.40
RT	6.15	7.55	7.75	10.10	10.95	11.65	13.85	15.80	16.30	17.90
INT	5.65	7.25	7.95	10.45	11.75	12.40	14.50	17.15	17.80	19.70
ART	10.90	10.40	7.95	10.15	10.40	10.20	11.95	13.40	13.40	15.70
ART+INT	6.40	6.60	5.00	6.45	7.50	8.00	9.45	11.15	10.65	13.20
Puri & Sen	5.95	7.25	7.75	9.90	10.70	11.55	13.65	15.85	16.00	17.90
v.d.Waerden	5.65	7.20	7.80	10.30	11.65	12.05	14.10	17.00	17.70	19.60
ATS	5.95	7.45	7.75	10.05	10.95	11.65	13.85	15.80	16.30	17.90

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.15	3.95	4.10	4.50	3.55	4.45	4.20	5.05	4.30	4.70
RT	5.45	5.30	6.30	5.60	6.80	6.60	7.05	7.55	7.70	7.85
INT	5.65	5.60	6.45	6.40	7.65	7.75	7.20	9.20	8.75	9.80
ART	13.25	12.40	11.05	11.30	11.35	10.05	10.30	10.05	9.55	9.95
ART+INT	9.60	6.55	5.60	6.20	5.95	5.35	6.10	6.25	6.40	6.70
Puri & Sen	4.90	5.00	6.10	5.05	6.45	6.40	6.60	7.10	7.15	7.50
v.d.Waerden	5.10	5.45	6.15	5.70	7.00	7.10	6.80	8.65	8.35	9.20
ATS	5.35	5.30	6.30	5.60	6.80	6.60	7.05	7.55	7.70	7.85

6.3.2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.25	5.75	4.75	4.20	4.40	4.75	4.90	4.40	5.65	5.20
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	10.55	8.15	7.85	7.75	8.90	8.00	8.55	10.10	9.85	10.65
ART+INT	5.10	3.30	3.30	3.65	5.70	5.85	6.50	9.20	9.85	10.70
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.80	6.60	5.85	4.75	6.10	5.10	6.10	5.55	5.15	5.05
RT	5.65	5.10	4.75	3.85	5.00	4.50	5.45	4.90	4.30	3.95
INT	5.95	5.60	4.75	4.45	5.05	4.80	5.55	4.85	4.55	4.10
ART	17.45	15.40	14.05	12.85	14.40	13.75	13.95	15.50	16.45	15.90
ART+INT	8.55	5.80	6.20	6.40	7.65	8.10	9.70	13.40	13.35	16.15
Puri & Sen	5.05	4.95	4.60	3.65	4.85	4.25	5.25	4.80	3.85	3.60
v.d.Waerden	5.25	5.15	4.70	4.15	4.70	4.45	5.35	4.80	4.35	4.10
ATS	5.60	5.15	4.45	3.90	5.05	4.50	5.30	5.05	3.85	4.00

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.10	5.75	5.15	4.25	5.35	4.15	5.55	4.80	4.10	4.00
RT	5.70	5.00	4.75	3.75	4.45	4.45	5.15	4.90	3.85	3.70
INT	5.75	5.05	4.25	4.10	4.50	4.15	5.40	4.60	4.20	3.55
ART	22.45	22.85	21.55	21.30	21.90	22.80	22.45	24.75	25.20	25.45
ART+INT	12.35	10.40	9.85	9.70	11.20	12.90	15.25	17.90	20.00	21.70
Puri & Sen	4.45	4.50	4.30	3.25	4.00	3.95	4.20	4.15	3.25	3.25
v.d.Waerden	4.60	4.05	3.80	3.45	4.10	3.60	4.70	3.85	3.60	3.40
ATS	5.35	5.15	4.50	3.95	4.60	4.50	5.30	4.85	3.90	3.80

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.05	5.70	5.45	5.65	5.05	5.10	5.85	5.60	6.05	6.30
RT	6.35	7.85	8.75	10.30	11.80	12.75	16.15	17.55	19.60	20.15
INT	6.05	7.75	9.55	10.75	12.30	13.50	17.80	18.30	20.50	21.05
ART	13.60	12.60	13.45	14.30	16.40	15.95	18.00	21.25	22.60	22.10
ART+INT	7.10	5.55	6.45	8.10	11.75	13.20	16.30	21.05	22.60	24.65
Puri & Sen	5.75	7.20	8.45	9.90	11.55	12.40	16.00	17.15	19.20	19.70
v.d.Waerden	5.30	7.65	8.90	10.60	11.60	13.20	17.30	17.70	19.60	20.65
ATS	4.75	6.20	8.05	9.40	10.45	11.65	14.55	15.65	18.25	18.70

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.15	7.10	7.05	5.85	5.65	6.25	7.35	7.35	7.00	6.15
RT	9.05	12.10	14.50	18.75	23.80	28.25	31.80	35.05	37.40	42.70
INT	10.20	13.30	16.70	21.95	28.30	32.00	37.90	42.75	44.85	50.40
ART	14.20	12.85	14.15	15.20	19.45	20.80	23.80	27.75	30.45	33.10
ART+INT	7.10	6.40	7.15	10.15	14.90	17.05	22.45	25.85	29.70	34.95
Puri & Sen	8.20	11.25	13.80	18.30	22.85	27.35	31.10	34.40	36.65	42.00
v.d.Waerden	8.90	12.70	16.30	21.00	27.55	31.50	36.80	41.70	44.15	49.70
ATS	7.30	10.55	12.80	17.10	22.50	26.80	30.35	32.80	35.35	40.35

6.3.3 Factor B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.05	6.25	5.40	4.75	5.90	5.55	4.75	5.30	4.80	5.65
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	9.65	8.05	6.35	7.10	8.85	7.90	7.40	8.95	9.45	10.50
ART+INT	3.70	2.35	2.70	4.05	5.30	6.45	7.20	7.55	9.75	10.15
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	3.45	3.50	3.65	3.65	4.05	4.25	3.50	4.40	4.35	4.30
RT	7.45	9.15	10.55	12.40	15.05	18.00	21.60	21.90	25.65	27.80
INT	6.85	9.15	10.25	11.90	15.00	17.05	21.05	20.75	24.30	26.40
ART	5.55	7.85	9.65	10.70	11.30	14.55	17.75	17.55	20.65	22.00
ART+INT	2.85	4.40	5.05	6.55	7.75	9.90	15.00	15.35	16.15	19.15
Puri & Sen	6.25	9.00	10.25	11.70	14.85	17.75	21.50	21.70	25.60	27.40
v.d.Waerden	5.70	8.85	9.55	11.55	15.00	16.55	20.95	20.55	24.00	26.35
ATS	6.10	8.95	10.35	12.10	14.75	17.80	21.50	21.85	25.35	27.35

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.30	4.15	4.95	4.35	4.85	4.80	4.60	4.40	4.70	5.30
RT	12.90	22.35	33.35	41.55	51.05	60.95	69.25	74.75	79.20	86.45
INT	12.80	21.85	31.15	39.00	48.45	58.85	66.10	72.65	77.00	84.35
ART	8.70	14.75	20.70	27.75	34.00	43.65	51.55	57.00	63.00	69.45
ART+INT	3.95	8.30	14.25	19.25	28.50	35.55	45.80	51.15	57.30	64.75
Puri & Sen	12.00	21.60	32.60	41.20	50.70	60.65	69.00	74.50	79.10	86.15
v.d.Waerden	11.50	21.00	30.55	38.35	48.15	58.60	65.90	72.40	76.80	84.10
ATS	11.20	21.70	32.45	40.95	50.55	60.45	68.80	74.30	79.10	86.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.20	3.40	3.85	3.05	3.95	3.45	5.20	3.70	4.20	4.55
RT	6.40	6.35	7.10	6.85	7.25	9.15	10.05	9.10	10.40	11.25
INT	6.15	6.35	7.05	6.45	7.75	9.05	10.40	10.35	11.35	12.40
ART	5.80	5.75	6.35	5.85	6.30	7.90	8.50	7.85	8.80	9.80
ART+INT	3.30	3.55	3.45	3.20	4.30	5.60	7.30	6.60	8.05	8.90
Puri & Sen	5.80	5.90	6.80	6.45	7.10	8.90	9.65	8.65	10.10	11.15
v.d.Waerden	5.40	5.90	6.30	6.10	7.60	8.80	10.10	10.05	10.95	12.25
ATS	5.60	6.00	7.10	6.75	7.10	9.10	9.85	9.00	10.35	11.25

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.15	3.50	3.85	5.10	4.05	4.15	4.85	4.85	4.60	4.60
RT	9.05	15.00	20.00	26.45	31.85	39.40	46.75	50.70	56.90	60.05
INT	8.40	14.15	18.80	25.55	32.60	38.50	46.75	50.65	56.15	59.70
ART	7.25	10.90	13.55	18.85	21.50	28.90	34.25	37.45	42.20	45.70
ART+INT	4.30	6.00	8.80	13.45	16.60	22.35	30.05	32.50	38.75	42.00
Puri & Sen	7.80	14.05	18.70	25.15	30.85	38.50	46.05	50.00	56.00	59.35
v.d.Waerden	7.60	13.15	17.85	24.50	31.70	37.50	46.10	49.35	55.20	59.15
ATS	7.70	14.20	19.40	25.80	31.60	38.95	46.50	50.20	56.20	59.55

6.3.4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.05	6.25	5.40	4.75	5.90	5.55	4.75	5.30	4.80	5.65
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	9.65	8.05	6.35	7.10	8.85	7.90	7.40	8.95	9.45	10.50
ART+INT	3.70	2.35	2.70	4.05	5.30	6.45	7.20	7.55	9.75	10.15
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.80	6.20	6.00	5.90	5.20	5.40	5.40	5.40	4.50	6.20
RT	9.35	16.25	23.55	28.70	34.90	41.00	48.90	54.65	60.60	67.65
INT	9.10	15.95	23.10	29.05	34.50	40.95	48.15	54.30	60.10	67.25
ART	15.95	17.00	20.00	25.25	30.05	34.40	41.15	43.95	51.05	58.90
ART+INT	6.50	7.40	11.80	17.05	21.75	29.85	39.35	43.35	49.85	57.30
Puri & Sen	8.95	15.70	22.95	28.65	34.65	40.95	48.60	54.50	60.35	67.60
v.d.Waerden	8.45	15.45	22.70	28.55	34.20	40.80	47.35	54.30	60.10	67.00
ATS	7.05	13.05	19.20	24.90	31.95	37.30	42.60	49.10	53.85	60.35

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.70	6.70	6.65	7.00	6.20	6.05	5.75	6.30	5.30	6.30
RT	26.10	50.70	69.90	83.10	91.75	96.40	97.95	98.95	99.45	99.85
INT	25.30	48.25	68.80	82.20	91.25	96.10	97.95	98.80	99.45	99.80
ART	25.55	34.05	46.75	57.40	67.50	77.30	85.15	89.30	93.25	94.65
ART+INT	11.80	20.65	33.95	48.00	60.20	72.15	82.30	87.05	91.50	94.30
Puri & Sen	24.95	49.15	69.70	82.60	91.65	96.30	98.00	98.95	99.40	99.80
v.d.Waerden	24.30	47.80	68.25	82.00	91.05	96.05	97.80	98.80	99.45	99.80
ATS	15.95	39.30	61.00	76.85	88.35	94.25	96.55	98.15	99.10	99.75

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.15	6.70	6.20	6.05	7.10	5.55	6.25	6.80	6.10	6.35
RT	7.05	10.35	12.75	15.65	20.00	22.25	26.30	29.55	31.80	37.55
INT	7.45	11.30	14.10	17.90	21.15	23.30	28.55	31.45	34.70	39.95
ART	13.95	13.35	13.80	16.40	19.85	22.05	24.70	26.05	29.75	34.45
ART+INT	5.10	5.25	6.60	11.00	13.85	17.45	22.30	24.95	30.40	35.75
Puri & Sen	6.75	9.85	12.05	15.25	19.90	21.85	26.00	29.20	31.35	37.05
v.d.Waerden	6.80	10.50	13.00	17.35	20.60	23.00	28.25	31.25	34.25	39.40
ATS	4.65	8.55	10.20	13.15	15.85	18.05	20.90	24.45	26.45	31.15

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.65	7.55	6.80	6.95	6.75	6.90	6.65	6.60	6.30	7.30
RT	6.95	10.65	13.30	17.45	21.75	24.35	27.80	31.35	33.70	39.55
INT	8.15	12.75	16.05	20.35	25.30	28.90	33.45	38.35	39.55	45.90
ART	13.85	13.00	13.80	16.80	19.95	24.10	24.15	26.95	31.70	34.80
ART+INT	5.55	5.05	7.25	10.70	14.65	20.20	21.90	25.55	32.30	35.65
Puri & Sen	6.60	10.35	12.75	16.25	21.10	24.05	27.15	30.80	33.00	38.75
v.d.Waerden	7.05	11.95	15.25	19.50	23.70	27.70	32.75	37.00	38.85	45.35
ATS	5.65	9.15	10.35	13.15	16.85	20.95	22.95	25.45	28.25	33.80

6.3.5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	8.40	6.55	6.40	6.35	5.40	6.45	5.60	6.80	6.00	5.95
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	7.60	6.45	5.55	5.65	6.00	6.00	4.90	5.55	5.40	5.90
ART+INT	6.25	5.15	5.70	5.00	5.15	5.45	4.95	4.90	5.60	5.15
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	3.50	3.60	3.25	4.20	3.00	4.50	3.80	4.60	3.80	4.30
RT	5.60	4.90	5.50	5.30	4.35	4.25	5.20	4.75	5.40	5.00
INT	5.75	4.90	5.40	4.95	4.40	4.15	5.30	5.00	5.10	4.75
ART	9.35	7.45	7.00	7.30	5.75	5.20	6.45	5.90	6.50	5.00
ART+INT	5.90	5.20	4.80	4.90	3.45	4.60	4.85	4.30	4.80	4.30
Puri & Sen	4.95	4.45	5.00	5.10	4.20	4.00	5.10	4.60	5.20	4.80
v.d.Waerden	5.00	4.45	5.00	4.70	4.20	4.05	4.95	4.75	4.85	4.65
ATS	4.95	4.65	5.25	5.15	4.30	4.25	5.20	4.75	5.35	5.00

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	3.25	3.40	2.85	4.15	3.20	4.55	4.05	4.30	3.55	4.25
RT	5.75	5.05	5.65	4.95	4.60	4.40	5.10	4.80	5.25	5.20
INT	5.70	5.10	5.30	5.20	4.95	4.30	5.05	5.15	5.05	5.25
ART	10.15	8.85	7.85	8.40	6.95	6.90	7.35	7.20	7.60	5.85
ART+INT	5.95	5.40	4.75	5.40	3.75	4.65	4.45	4.30	5.25	4.40
Puri & Sen	4.60	4.55	4.45	4.45	3.80	3.70	4.75	4.25	4.50	4.40
v.d.Waerden	4.75	4.35	4.80	4.40	4.05	3.90	4.70	4.20	4.55	4.40
ATS	5.10	4.80	5.30	4.80	4.50	4.20	5.05	4.70	5.20	5.10

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.45	2.95	4.25	4.05	3.70	4.80	4.00	4.40	3.95	3.40
RT	6.15	5.85	7.40	7.90	7.70	8.45	9.25	9.85	11.60	10.00
INT	6.20	5.55	7.50	7.55	8.10	9.65	9.75	10.85	11.70	11.10
ART	8.35	7.35	7.35	8.25	7.40	8.90	8.55	9.40	10.25	9.50
ART+INT	5.40	5.05	4.80	5.95	5.65	7.65	7.05	8.65	9.10	7.95
Puri & Sen	5.50	5.20	6.85	7.65	7.05	8.30	9.05	9.60	11.45	9.95
v.d.Waerden	5.35	4.95	7.15	7.40	7.75	8.90	9.40	10.60	11.50	11.05
ATS	5.15	5.55	7.05	7.75	7.55	8.40	9.20	9.80	11.60	9.95

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	3.35	3.55	3.65	4.70	3.65	3.55	3.10	4.35	5.10	4.50
RT	6.10	8.85	10.55	13.25	15.80	16.55	20.00	23.40	24.05	27.80
INT	6.25	8.85	10.55	13.45	16.65	17.55	20.20	23.60	24.65	28.00
ART	9.45	9.50	9.85	12.55	12.40	13.45	16.50	18.20	19.55	20.55
ART+INT	5.70	6.30	6.85	8.00	9.50	10.75	12.50	14.50	16.20	17.45
Puri & Sen	5.10	7.50	9.55	12.20	14.50	15.40	19.10	21.60	22.95	26.45
v.d.Waerden	5.10	7.90	9.45	12.30	15.65	16.20	19.20	22.40	23.50	26.95
ATS	5.40	8.60	10.25	13.05	15.45	16.30	19.75	23.25	23.85	27.70

6.3.6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	8.40	6.55	6.40	6.35	5.40	6.45	5.60	6.80	6.00	5.95
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	7.60	6.45	5.55	5.65	6.00	6.00	4.90	5.55	5.40	5.90
ART+INT	6.25	5.15	5.70	5.00	5.15	5.45	4.95	4.90	5.60	5.15
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	8.60	7.20	7.00	6.20	7.20	7.10	5.80	6.60	4.55	5.95
RT	4.70	5.05	5.80	4.25	5.70	5.40	5.65	5.15	5.45	5.25
INT	5.20	5.30	5.65	4.70	5.70	5.45	5.70	5.35	5.20	5.55
ART	8.70	8.05	7.95	7.00	7.60	7.00	6.70	6.00	6.35	6.15
ART+INT	6.35	6.05	6.20	5.20	5.45	5.70	5.20	5.55	5.15	5.85
Puri & Sen	3.60	4.45	5.30	4.00	5.15	4.70	5.15	4.70	4.80	5.00
v.d.Waerden	3.85	4.50	5.10	4.60	5.05	5.15	5.40	5.15	4.95	5.25
ATS	4.75	4.25	5.65	4.95	6.10	5.50	5.40	5.10	5.55	5.45

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	8.85	7.60	7.15	6.25	7.00	6.65	6.30	6.05	5.05	5.80
RT	4.75	4.75	5.95	4.40	5.60	4.85	5.80	5.25	5.20	5.50
INT	5.15	4.80	5.35	4.85	5.35	5.35	5.45	5.30	5.15	5.15
ART	10.30	10.45	9.60	8.75	9.05	8.40	8.05	7.10	7.70	8.05
ART+INT	6.15	5.65	5.80	4.85	5.50	5.65	5.30	5.55	5.70	6.55
Puri & Sen	2.70	3.60	4.85	3.30	4.00	3.85	4.50	4.20	3.80	4.05
v.d.Waerden	3.05	3.80	4.35	3.70	4.00	4.50	4.25	4.25	4.45	4.40
ATS	3.85	4.10	5.70	4.80	5.75	5.55	5.30	5.40	5.65	5.20

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.05	8.10	7.40	7.80	7.35	6.50	6.95	6.85	6.30	7.85
RT	6.00	6.80	7.65	8.70	9.10	11.05	11.65	12.30	13.50	15.25
INT	6.40	7.65	9.10	9.50	10.55	12.45	12.35	13.45	14.40	16.15
ART	9.00	9.35	9.55	9.75	10.45	10.20	10.55	10.55	11.85	13.35
ART+INT	7.70	6.10	7.75	7.75	8.00	8.65	10.00	10.00	11.00	12.65
Puri & Sen	4.05	5.55	6.85	8.15	8.45	10.40	10.90	11.30	12.60	14.35
v.d.Waerden	4.50	6.55	8.30	8.80	9.60	11.50	11.45	12.60	13.90	15.40
ATS	4.05	4.55	6.00	6.90	6.85	8.20	8.05	8.80	10.10	11.05

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.00	7.85	7.75	7.45	6.85	6.90	7.75	7.15	7.05	7.95
RT	7.45	9.30	11.05	14.70	17.15	20.95	25.55	26.80	30.60	33.75
INT	7.95	11.20	14.35	18.20	21.85	26.35	32.10	34.75	35.95	42.70
ART	9.80	10.25	11.25	13.75	14.85	18.40	20.05	21.65	24.60	28.25
ART+INT	8.05	7.20	8.55	10.20	12.25	15.10	18.30	20.30	22.90	26.30
Puri & Sen	5.35	8.30	10.10	13.55	16.05	19.90	24.40	25.60	29.25	32.60
v.d.Waerden	5.75	9.65	12.55	17.05	20.60	24.65	30.55	33.35	34.50	41.35
ATS	5.00	8.15	8.40	11.85	13.50	17.30	20.00	21.70	24.35	26.90

6. 4. Type I error rates -Parameters 1.0 / 0.5

6. 4. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.20	5.35	5.15	3.70	4.35	4.55	4.50	5.05	4.60	4.65
RT	6.20	5.15	5.35	4.50	5.50	4.60	5.00	4.60	5.00	5.35
INT	6.30	5.05	5.60	4.15	5.20	4.65	4.75	5.00	5.10	5.25
ART	6.00	5.30	5.30	4.70	5.15	4.40	4.90	4.80	5.20	5.45
ART+INT	5.15	5.00	5.65	3.90	4.70	4.25	4.60	4.70	4.90	5.15
Puri & Sen	6.20	5.20	5.45	4.40	5.35	4.55	5.00	4.65	5.10	5.40
v.d.Waerden	6.05	5.30	5.70	4.30	5.25	4.65	4.70	4.95	5.00	5.25
ATS	5.90	5.15	5.30	4.45	5.50	4.60	5.00	4.60	5.00	5.35

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.40	4.35	4.85	5.70	4.85	4.75	5.85	4.70	4.75	5.55
RT	4.75	4.80	4.75	5.40	5.10	4.85	5.60	4.70	4.30	5.15
INT	5.25	4.70	4.50	5.40	5.05	5.15	5.85	4.60	4.50	4.60
ART	6.20	5.30	5.40	5.90	5.45	5.00	6.05	4.75	5.05	4.80
ART+INT	4.70	4.45	4.00	5.05	4.20	4.40	4.95	4.20	4.00	4.40
Puri & Sen	4.85	4.60	4.75	5.35	5.05	4.85	5.60	4.60	4.25	5.15
v.d.Waerden	4.70	4.75	4.40	5.15	4.95	5.00	5.65	4.65	4.55	4.60
ATS	4.65	4.70	4.70	5.40	5.10	4.85	5.60	4.70	4.30	5.15

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.30	4.10	4.65	5.10	4.85	4.30	5.95	4.25	4.50	5.35
RT	5.15	4.65	4.55	5.25	5.00	4.90	5.65	4.65	4.20	5.05
INT	5.20	4.95	4.70	5.55	5.05	4.75	5.75	4.60	4.65	4.70
ART	7.85	6.05	6.35	6.75	5.90	5.55	6.70	5.25	5.40	5.30
ART+INT	5.40	4.40	4.10	4.80	3.65	4.30	4.30	3.65	3.60	3.70
Puri & Sen	4.80	4.15	4.30	5.15	4.50	4.60	5.35	4.45	4.05	4.55
v.d.Waerden	4.35	4.55	4.45	5.35	4.95	4.45	5.55	4.30	4.35	4.55
ATS	4.90	4.60	4.55	5.25	4.95	4.85	5.65	4.65	4.20	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.00	4.55	6.00	4.70	4.60	4.65	5.10	4.55	5.85
RT	5.50	6.50	6.55	8.30	8.95	9.35	10.25	12.30	11.90	13.40
INT	5.25	6.50	6.85	8.95	9.45	9.95	10.50	12.85	13.55	14.45
ART	5.40	6.65	5.90	8.25	8.90	8.75	10.00	12.20	11.35	13.25
ART+INT	4.40	5.55	5.80	7.85	8.10	8.45	9.45	11.95	11.55	13.35
Puri & Sen	5.50	6.50	6.30	8.30	8.85	9.25	10.05	12.35	11.65	13.45
v.d.Waerden	5.25	6.55	6.75	8.90	9.35	10.00	10.20	12.90	13.25	14.15
ATS	5.40	6.50	6.45	8.30	8.95	9.35	10.25	12.30	11.90	13.40

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.90	5.05	4.95	4.55	5.00	4.65	5.85	4.80	4.90
RT	5.55	5.35	6.05	5.75	7.10	6.80	7.10	8.25	7.95	8.80
INT	5.70	6.00	6.50	6.65	7.95	8.20	7.85	10.20	9.60	10.55
ART	7.60	6.80	6.75	6.15	7.65	7.20	8.05	8.80	8.30	8.95
ART+INT	5.45	4.85	5.60	5.25	6.20	6.35	6.40	7.95	7.55	8.25
Puri & Sen	5.30	5.10	5.90	5.40	6.90	6.60	6.70	7.85	7.70	8.15
v.d.Waerden	5.20	5.60	6.15	6.35	7.85	7.90	7.50	9.85	8.95	10.10
ATS	5.35	5.30	6.00	5.75	7.10	6.80	7.10	8.25	7.95	8.80

6.4.2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.30	4.20	3.55	4.45	4.75	4.95	4.85	5.40	5.05
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.75	3.10	3.20	2.55	3.30	2.45	2.75	3.95	3.55	3.55
ART+INT	2.40	2.20	2.30	1.85	2.80	2.05	2.30	3.10	3.10	3.20
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.80	6.05	5.15	4.35	5.80	4.95	5.90	5.15	4.70	4.45
RT	5.65	5.35	4.70	4.05	5.00	4.45	5.45	4.85	4.10	3.85
INT	6.05	5.70	4.90	4.35	5.10	5.15	5.95	5.10	4.70	4.00
ART	5.35	4.10	4.00	3.25	4.15	3.55	3.70	4.05	3.00	3.15
ART+INT	3.10	2.55	3.00	2.55	2.95	2.40	2.95	2.90	2.10	2.55
Puri & Sen	5.00	5.05	4.70	3.75	4.85	4.35	5.30	4.80	3.85	3.80
v.d.Waerden	5.65	5.25	4.80	4.20	4.90	4.90	5.75	5.05	4.50	4.00
ATS	5.75	4.85	4.50	3.95	4.85	4.45	5.50	4.90	3.65	3.85

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.65	4.85	4.60	3.50	4.40	3.95	4.95	4.20	3.90	3.50
RT	5.30	4.95	4.55	3.65	4.30	4.55	5.05	4.85	3.90	3.85
INT	5.50	4.60	4.20	3.80	4.55	4.05	5.45	4.50	3.70	3.65
ART	8.60	6.65	5.80	4.90	6.10	5.25	6.05	5.80	4.65	4.65
ART+INT	4.40	3.30	3.20	2.35	3.20	2.40	3.05	3.05	2.75	2.85
Puri & Sen	4.70	4.25	4.30	3.45	4.20	4.20	4.60	4.35	3.20	3.50
v.d.Waerden	4.60	4.00	3.70	3.20	4.15	3.80	4.95	3.90	3.30	3.40
ATS	5.15	4.95	4.40	3.75	4.45	4.65	5.20	4.65	3.55	3.65

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	5.50	5.90	4.90	5.95	5.70	5.80	6.10	5.90	5.95
RT	5.95	6.95	7.20	8.15	9.35	9.85	12.20	13.10	14.65	14.55
INT	6.15	7.65	8.00	8.60	10.05	10.70	12.70	13.85	14.50	15.15
ART	4.00	4.15	4.85	5.65	6.60	6.75	8.20	11.05	10.45	9.75
ART+INT	2.75	3.10	3.90	4.75	5.45	5.75	7.85	9.90	9.85	10.15
Puri & Sen	5.65	6.65	7.05	7.75	9.20	9.80	12.05	12.80	14.65	14.25
v.d.Waerden	5.25	7.50	7.55	8.20	9.85	10.30	12.25	13.55	14.20	14.95
ATS	4.55	5.70	6.35	7.00	8.40	9.00	10.50	11.50	12.75	13.15

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.25	7.55	6.90	7.45	7.40	7.20	7.05	8.35	6.95	7.55
RT	8.20	10.30	11.15	14.60	18.05	21.10	22.75	25.80	26.40	30.15
INT	9.65	11.95	13.40	17.60	21.90	24.95	28.25	31.55	32.45	38.35
ART	5.40	6.10	6.30	8.55	11.25	12.60	15.20	18.05	19.40	21.85
ART+INT	3.65	4.55	4.80	7.50	10.90	12.65	16.35	19.30	22.35	24.60
Puri & Sen	7.75	9.60	10.80	14.25	17.45	20.60	22.30	25.45	26.05	29.85
v.d.Waerden	8.60	11.35	13.10	17.05	21.35	24.25	27.70	30.90	31.95	37.35
ATS	6.90	8.75	9.70	12.30	16.50	19.30	20.55	23.40	24.50	27.85

6.4.3 Factor B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.00	4.50	4.55	4.00	5.15	4.70	4.85	3.85	4.35	4.40
RT	5.60	5.15	5.55	5.30	5.10	4.65	4.75	4.30	3.95	4.70
INT	5.75	5.35	5.15	5.20	5.50	4.80	5.15	4.10	4.00	4.55
ART	6.10	5.15	5.15	5.30	5.05	4.50	4.90	4.65	4.20	4.85
ART+INT	5.25	4.45	4.90	5.05	5.25	4.50	5.10	4.05	3.85	4.60
Puri & Sen	4.70	4.85	5.40	5.10	5.00	4.50	4.75	4.35	3.95	4.70
v.d.Waerden	5.15	4.90	5.00	5.15	5.35	4.55	5.00	4.00	3.95	4.55
ATS	4.55	5.15	5.45	5.20	5.05	4.60	4.70	4.30	3.90	4.70

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.45	4.55	4.65	4.35	4.75	5.00	4.80	5.15	5.25	5.25
RT	6.60	8.15	8.70	9.15	11.50	13.10	15.80	15.95	17.85	19.00
INT	5.80	7.95	7.65	8.75	10.20	11.55	13.65	14.00	15.50	16.80
ART	5.85	8.05	8.55	8.95	10.15	11.75	15.25	14.95	17.10	18.05
ART+INT	4.50	6.60	6.40	7.25	8.70	10.40	12.90	12.55	13.90	14.95
Puri & Sen	5.55	8.00	8.50	8.90	11.30	12.65	15.70	15.65	17.65	18.95
v.d.Waerden	5.25	7.50	7.35	8.60	9.95	11.30	13.35	13.75	15.35	16.50
ATS	5.80	7.80	8.40	8.95	11.05	12.75	15.40	15.50	17.55	18.65

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.25	5.70	5.45	5.50	5.50	5.25	4.80	5.45	5.65
RT	10.85	17.30	24.55	30.25	36.85	45.50	53.45	58.65	63.90	67.80
INT	10.15	16.20	21.70	25.90	32.95	39.95	46.85	52.20	57.60	63.65
ART	9.35	15.25	20.70	26.10	32.10	40.20	48.50	53.40	58.95	64.25
ART+INT	6.40	11.75	17.35	20.45	27.80	34.50	41.65	45.85	51.90	59.00
Puri & Sen	9.50	16.35	24.05	29.80	36.45	45.15	53.35	58.30	63.55	67.60
v.d.Waerden	8.95	15.10	21.10	25.65	32.25	39.80	46.50	51.70	57.55	63.35
ATS	9.05	16.10	23.45	29.25	35.75	44.60	52.75	57.65	63.05	67.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.40	4.40	4.30	4.25	4.60	4.40	5.60	4.25	4.80	5.70
RT	6.10	5.90	6.65	5.95	6.15	7.80	8.30	7.30	8.20	9.55
INT	6.25	5.70	6.15	5.80	6.05	7.50	8.20	8.10	8.70	10.25
ART	6.30	5.90	6.55	6.25	6.25	7.40	8.35	7.40	8.30	9.45
ART+INT	5.35	5.25	5.45	4.90	5.30	6.75	7.60	7.10	8.20	9.35
Puri & Sen	5.40	5.65	6.20	5.55	5.90	7.55	8.10	7.10	7.85	9.40
v.d.Waerden	5.50	5.30	5.85	5.55	5.80	7.10	7.90	7.80	8.50	9.90
ATS	5.20	5.75	6.35	5.85	6.10	7.65	8.25	7.25	8.10	9.45

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	5.25	4.15	5.10	5.20	5.25	4.90	5.00	5.45	5.20
RT	7.60	11.20	14.70	17.90	21.65	26.65	33.35	34.65	40.25	42.25
INT	6.95	10.90	13.40	16.70	20.25	25.65	31.30	32.25	37.05	39.80
ART	7.75	10.15	12.40	16.30	19.35	24.80	30.50	32.40	37.30	39.65
ART+INT	5.55	8.30	10.65	13.70	16.45	22.25	27.00	28.45	32.45	35.70
Puri & Sen	6.65	10.40	13.80	17.15	21.15	26.35	32.55	34.10	39.75	41.75
v.d.Waerden	6.45	10.10	12.40	16.20	19.75	25.10	30.85	31.95	36.10	39.15
ATS	6.30	10.65	14.00	17.25	20.95	26.30	32.65	34.35	39.55	41.60

6.4.4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.50	5.40	4.45	5.75	4.70	4.80	5.15	5.90	5.00
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	3.70	3.15	2.45	3.05	3.20	3.05	2.35	3.10	2.70	3.05
ART+INT	2.30	2.15	1.75	2.45	2.45	2.95	2.25	2.85	2.60	2.90
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.55	5.80	5.40	5.55	5.30	4.80	5.10	5.75	5.10	5.30
RT	7.65	12.25	16.65	20.35	24.80	26.95	32.05	37.20	41.10	44.30
INT	7.35	11.90	15.55	18.90	22.60	25.90	29.00	34.65	38.65	41.75
ART	5.00	6.80	9.85	14.30	16.70	20.85	25.80	29.15	35.05	39.15
ART+INT	2.95	4.95	7.85	12.45	14.90	18.00	23.80	26.55	33.45	36.40
Puri & Sen	7.45	11.55	16.20	20.05	24.60	26.85	31.80	36.80	40.60	44.00
v.d.Waerden	7.15	11.50	15.15	18.55	22.25	25.40	28.80	34.40	38.40	41.50
ATS	6.25	9.95	13.55	17.05	21.50	23.85	27.45	32.15	35.40	38.75

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.00	6.60	6.25	6.00	5.65	5.15	5.60	5.45	4.95	5.50
RT	19.25	35.50	51.85	65.85	78.25	85.85	91.35	94.10	96.40	98.20
INT	17.15	33.00	47.75	61.90	74.00	82.50	89.15	92.85	95.60	97.55
ART	11.60	20.70	35.95	50.35	64.10	76.30	84.10	89.70	93.85	96.40
ART+INT	7.80	16.05	30.65	44.15	58.20	71.00	80.65	86.75	92.00	95.25
Puri & Sen	18.10	34.60	51.25	65.55	77.80	85.60	91.25	94.05	96.40	98.25
v.d.Waerden	16.35	31.95	47.45	61.75	73.80	82.40	89.05	92.70	95.45	97.45
ATS	11.65	27.80	44.05	57.90	72.05	80.25	87.85	91.65	94.70	97.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.30	6.90	6.60	6.75	6.70	6.25	5.85	7.30	6.25	6.15
RT	6.70	8.90	10.40	12.80	14.65	15.50	17.75	20.55	23.20	25.45
INT	6.85	9.15	11.20	13.45	14.85	16.40	20.00	22.60	24.55	27.05
ART	3.90	5.50	6.30	8.25	9.00	11.05	12.05	14.85	16.15	18.90
ART+INT	2.50	3.85	4.90	7.60	7.60	9.60	11.95	14.30	15.25	18.65
Puri & Sen	6.25	8.85	9.75	12.60	14.15	15.05	17.40	20.35	22.95	24.95
v.d.Waerden	6.30	8.75	10.85	12.95	14.50	16.10	19.60	22.35	24.40	26.85
ATS	4.25	7.35	7.80	9.90	11.15	12.30	14.00	16.90	17.65	19.65

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.80	7.60	8.10	7.25	7.60	7.55	7.90	7.70	6.95	8.15
RT	6.55	9.30	10.85	13.15	16.30	18.45	19.95	22.65	23.20	28.85
INT	7.55	11.65	13.55	15.50	19.60	21.80	24.75	27.50	29.50	34.85
ART	4.45	5.60	6.20	8.30	11.05	13.35	14.60	16.25	18.95	20.95
ART+INT	2.85	3.95	4.75	7.70	10.55	12.65	14.90	16.50	19.35	22.20
Puri & Sen	6.00	8.90	10.25	12.60	15.80	18.05	19.50	22.05	22.90	28.35
v.d.Waerden	6.75	10.55	12.85	14.65	18.90	21.20	23.90	26.85	28.60	33.90
ATS	5.15	8.25	8.50	9.90	12.35	15.40	15.75	16.60	18.20	23.30

6. 4. 5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.55	4.05	4.55	5.30	5.25	4.90	5.25	5.00	5.00	4.75
RT	4.95	4.60	4.85	5.40	5.50	5.05	5.90	4.55	5.80	4.95
INT	4.70	4.65	4.95	5.35	5.20	5.20	5.65	4.95	5.45	4.85
ART	5.30	4.60	5.80	5.55	5.40	5.05	5.90	4.85	5.95	4.80
ART+INT	4.55	4.60	5.15	5.80	5.40	5.10	5.75	4.40	5.70	4.70
Puri & Sen	4.80	4.40	4.60	5.20	5.45	4.80	5.80	4.55	5.65	4.75
v.d.Waerden	4.30	4.10	4.85	5.35	5.15	4.95	5.55	5.00	5.35	4.85
ATS	4.55	4.40	4.70	5.20	5.50	5.05	5.80	4.55	5.80	4.85

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.80	5.20	4.55	4.75	3.85	4.95	4.70	4.85	4.35	4.35
RT	5.55	4.85	5.65	5.35	4.65	4.15	5.15	4.65	5.45	4.95
INT	5.80	5.15	5.45	5.05	4.45	4.20	4.75	4.95	4.95	5.00
ART	6.75	5.90	5.75	5.70	4.55	4.35	5.50	4.80	5.40	4.90
ART+INT	6.00	5.65	5.40	5.45	4.25	4.20	5.50	4.55	4.65	4.60
Puri & Sen	5.00	4.75	5.20	5.30	4.50	4.15	5.05	4.50	5.30	4.90
v.d.Waerden	5.30	4.60	4.85	4.80	4.40	4.00	4.60	4.90	4.95	4.90
ATS	4.95	4.75	5.35	5.30	4.55	4.15	5.10	4.55	5.40	4.95

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.25	4.70	4.65	5.15	4.20	5.20	5.40	4.70	4.75	4.85
RT	6.00	5.10	5.30	4.80	4.95	4.45	5.40	4.95	5.30	5.20
INT	6.40	5.20	5.65	4.65	5.30	4.65	5.65	5.10	4.90	5.25
ART	7.90	6.50	5.75	5.65	5.00	5.05	6.20	5.40	5.55	4.90
ART+INT	6.60	5.45	5.20	5.00	4.65	4.20	5.00	4.50	4.55	4.45
Puri & Sen	4.90	4.80	4.45	4.40	4.45	4.25	4.80	4.30	4.85	4.80
v.d.Waerden	5.60	4.65	5.15	4.30	4.65	4.45	5.10	4.65	4.70	4.95
ATS	5.30	4.80	5.20	4.80	4.70	4.30	5.20	4.85	5.25	5.15

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	4.05	4.60	4.65	5.25	5.50	3.80	4.55	4.10	3.75
RT	5.90	5.25	6.70	6.80	6.80	7.50	7.60	8.55	9.10	7.60
INT	6.10	5.40	6.70	6.80	6.80	7.75	7.80	8.55	8.55	8.20
ART	6.25	5.40	6.85	7.20	6.80	7.65	7.60	8.15	8.80	7.65
ART+INT	5.75	4.80	6.05	6.60	5.90	7.60	6.70	7.90	7.85	7.45
Puri & Sen	5.20	4.85	6.30	6.50	6.40	7.35	7.40	8.40	8.65	7.45
v.d.Waerden	5.20	4.95	6.40	6.65	6.55	7.55	7.65	8.35	8.40	7.80
ATS	5.20	5.10	6.50	6.70	6.60	7.50	7.50	8.55	9.00	7.55

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.65	4.95	5.85	4.95	4.40	5.00	4.85	5.20	4.95
RT	6.15	8.20	9.00	11.05	12.65	13.30	15.45	18.20	18.15	20.00
INT	6.00	8.05	9.05	10.45	12.95	13.95	14.80	17.95	18.65	20.05
ART	6.70	7.70	8.75	10.60	11.70	13.50	14.70	17.85	17.75	18.95
ART+INT	5.25	6.05	7.85	8.70	10.10	11.85	12.60	14.75	16.40	17.35
Puri & Sen	5.25	7.30	8.10	10.20	12.30	12.90	14.80	17.40	17.45	19.20
v.d.Waerden	5.15	7.15	8.15	9.60	12.20	13.20	14.00	17.00	17.90	19.25
ATS	5.30	7.80	8.70	11.00	12.65	13.25	15.30	18.15	18.10	19.90

6.4.6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.20	5.70	5.75	5.10	5.50	6.20	5.25	5.90	5.50	5.05
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	5.05	5.15	4.45	4.40	5.10	5.35	4.50	4.65	4.60	5.00
ART+INT	5.90	5.20	5.30	4.60	5.20	5.90	4.20	4.50	5.00	4.55
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.75	5.60	6.05	5.60	6.80	6.40	6.30	6.10	4.65	5.35
RT	4.95	5.30	6.05	4.35	5.80	5.35	5.90	5.65	5.60	5.50
INT	5.40	5.25	6.05	5.35	6.05	5.75	6.05	5.60	5.80	5.60
ART	5.95	5.85	5.95	5.30	6.20	5.45	5.90	5.55	5.85	5.40
ART+INT	5.85	5.55	5.60	5.00	5.85	5.80	5.50	5.05	5.25	5.45
Puri & Sen	3.60	4.65	5.35	4.10	5.35	4.80	5.50	5.25	5.30	5.35
v.d.Waerden	3.95	4.70	5.45	4.95	5.40	5.50	5.55	5.10	5.45	5.15
ATS	4.55	4.15	5.85	4.85	6.25	5.40	5.35	5.25	5.55	5.40

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.70	6.05	6.30	5.50	6.20	6.30	5.10	6.40	4.70	5.00
RT	5.45	4.90	5.90	4.85	5.30	4.85	5.55	5.80	5.45	5.50
INT	5.65	5.00	5.40	5.05	5.30	5.50	5.55	5.95	5.15	5.25
ART	6.30	6.45	6.60	5.75	6.50	5.80	6.00	5.95	6.00	5.60
ART+INT	5.45	5.45	5.05	4.30	5.15	5.05	4.75	4.40	4.60	4.90
Puri & Sen	2.80	3.55	5.15	3.95	4.20	4.20	4.75	4.70	4.25	4.90
v.d.Waerden	3.50	4.10	4.55	4.20	4.40	4.75	4.85	4.80	4.55	4.70
ATS	3.85	4.30	5.95	4.70	5.65	5.15	5.20	5.40	5.70	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.45	7.50	8.05	7.25	7.30	7.80	7.30	6.55	6.35	8.10
RT	5.75	6.30	7.25	7.90	7.65	9.70	9.10	9.40	10.90	11.15
INT	6.75	7.00	8.65	8.25	9.30	10.75	10.20	10.90	11.40	12.20
ART	7.05	6.25	7.65	8.30	8.55	9.90	9.15	9.40	10.65	11.20
ART+INT	7.20	6.65	8.10	8.40	8.40	9.60	9.40	9.65	10.65	11.35
Puri & Sen	4.20	5.35	6.25	7.40	7.10	9.15	8.65	8.85	10.45	10.50
v.d.Waerden	4.60	5.95	7.90	7.45	8.50	10.35	9.45	10.30	11.00	11.45
ATS	4.05	4.35	5.40	6.30	5.80	7.40	6.55	7.30	8.20	8.40

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.00	7.85	7.95	8.85	8.20	8.25	8.95	7.65	9.05	8.95
RT	7.45	8.80	9.75	11.85	13.25	16.65	18.55	20.00	21.90	24.10
INT	8.35	11.25	12.70	15.10	17.85	21.35	25.35	25.65	26.90	31.90
ART	8.25	9.30	10.25	12.45	13.80	17.15	19.30	20.15	22.15	25.05
ART+INT	8.50	9.50	10.45	13.15	15.40	18.60	21.80	22.75	24.50	28.50
Puri & Sen	5.50	7.45	8.80	11.10	12.80	16.10	17.85	19.55	21.20	23.10
v.d.Waerden	6.25	9.55	11.30	13.90	16.90	20.45	24.50	24.95	26.10	31.10
ATS	4.40	7.00	6.85	9.40	10.15	12.85	14.05	15.80	16.65	19.30

6. 5. Type I error rates -Parameters 2.0 / 0.5

6. 5. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.20	5.35	5.15	3.70	4.35	4.55	4.50	5.05	4.60	4.65
RT	6.20	5.15	5.35	4.50	5.50	4.60	5.00	4.60	5.00	5.35
INT	6.30	5.05	5.60	4.15	5.20	4.65	4.75	5.00	5.10	5.25
ART	6.00	5.30	5.30	4.70	5.15	4.40	4.90	4.80	5.20	5.45
ART+INT	5.15	5.00	5.65	3.90	4.70	4.25	4.60	4.70	4.90	5.15
Puri & Sen	6.20	5.20	5.45	4.40	5.35	4.55	5.00	4.65	5.10	5.40
v.d.Waerden	6.05	5.30	5.70	4.30	5.25	4.65	4.70	4.95	5.00	5.25
ATS	5.90	5.15	5.30	4.45	5.50	4.60	5.00	4.60	5.00	5.35

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.40	4.35	4.85	5.70	4.85	4.75	5.85	4.70	4.75	5.50
RT	4.75	4.80	4.75	5.40	5.10	4.85	5.60	4.70	4.30	5.15
INT	5.20	4.70	4.50	5.40	5.05	5.15	5.85	4.65	4.50	4.60
ART	6.20	5.30	5.40	6.00	5.50	5.00	6.05	4.75	5.15	4.75
ART+INT	4.70	4.45	4.05	5.05	4.15	4.40	4.95	4.20	4.00	4.40
Puri & Sen	4.85	4.60	4.75	5.35	5.05	4.85	5.60	4.65	4.25	5.15
v.d.Waerden	4.70	4.75	4.45	5.10	4.95	5.00	5.65	4.65	4.55	4.60
ATS	4.65	4.70	4.70	5.40	5.10	4.85	5.60	4.70	4.30	5.15

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.30	4.10	4.65	5.10	4.85	4.30	5.95	4.25	4.50	5.35
RT	5.15	4.65	4.55	5.25	5.00	4.90	5.65	4.65	4.20	5.05
INT	5.20	4.95	4.70	5.55	5.05	4.75	5.75	4.60	4.65	4.70
ART	7.85	6.05	6.35	6.75	5.90	5.55	6.70	5.25	5.40	5.30
ART+INT	5.40	4.40	4.10	4.80	3.65	4.30	4.30	3.65	3.60	3.70
Puri & Sen	4.80	4.15	4.30	5.15	4.50	4.60	5.35	4.45	4.05	4.55
v.d.Waerden	4.35	4.55	4.45	5.35	4.95	4.45	5.55	4.30	4.35	4.55
ATS	4.90	4.60	4.55	5.25	4.95	4.85	5.65	4.65	4.20	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.00	4.55	6.00	4.70	4.60	4.65	5.10	4.55	5.85
RT	5.50	6.50	6.55	8.30	8.95	9.35	10.25	12.30	11.85	13.40
INT	5.25	6.50	6.85	8.95	9.40	9.95	10.50	12.80	13.55	14.45
ART	5.40	6.65	5.85	8.25	8.90	8.80	10.00	12.20	11.35	13.25
ART+INT	4.40	5.55	5.80	7.95	8.05	8.45	9.40	11.95	11.45	13.30
Puri & Sen	5.50	6.50	6.30	8.30	8.85	9.20	10.00	12.30	11.65	13.40
v.d.Waerden	5.25	6.55	6.70	8.90	9.30	10.00	10.20	12.85	13.25	14.10
ATS	5.40	6.50	6.45	8.30	8.95	9.35	10.25	12.30	11.85	13.40

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.90	5.05	4.95	4.55	5.00	4.65	5.85	4.80	4.90
RT	5.55	5.35	6.05	5.75	7.10	6.80	7.10	8.25	7.95	8.80
INT	5.70	6.00	6.50	6.65	7.95	8.20	7.85	10.20	9.60	10.55
ART	7.60	6.80	6.75	6.15	7.65	7.20	8.05	8.80	8.30	8.95
ART+INT	5.45	4.85	5.60	5.25	6.20	6.35	6.40	7.95	7.55	8.25
Puri & Sen	5.30	5.10	5.90	5.40	6.90	6.60	6.70	7.85	7.70	8.15
v.d.Waerden	5.20	5.60	6.15	6.35	7.85	7.90	7.50	9.85	8.95	10.10
ATS	5.35	5.30	6.00	5.75	7.10	6.80	7.10	8.25	7.95	8.80

6.5.2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.30	4.20	3.55	4.45	4.75	4.95	4.85	5.40	5.05
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.75	3.10	3.20	2.55	3.30	2.45	2.75	3.95	3.55	3.55
ART+INT	2.40	2.20	2.30	1.85	2.80	2.05	2.30	3.10	3.10	3.20
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.80	6.05	5.15	4.35	5.80	4.95	5.90	5.15	4.70	4.45
RT	5.65	5.35	4.70	4.05	4.95	4.45	5.45	4.85	4.10	3.85
INT	6.05	5.70	4.90	4.35	5.10	5.15	5.95	5.10	4.70	4.00
ART	5.30	4.15	4.05	3.20	4.15	3.55	3.65	4.05	3.00	3.15
ART+INT	3.10	2.55	3.00	2.60	3.00	2.35	2.95	2.90	2.15	2.55
Puri & Sen	5.00	5.05	4.65	3.75	4.85	4.35	5.30	4.80	3.85	3.80
v.d.Waerden	5.65	5.25	4.80	4.20	4.90	4.90	5.75	5.05	4.50	4.00
ATS	5.75	4.85	4.50	3.95	4.85	4.45	5.55	4.90	3.65	3.85

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.65	4.85	4.60	3.50	4.40	3.95	4.95	4.20	3.90	3.50
RT	5.30	4.95	4.55	3.65	4.30	4.55	5.05	4.85	3.90	3.85
INT	5.50	4.60	4.20	3.80	4.55	4.05	5.45	4.50	3.70	3.65
ART	8.60	6.65	5.80	4.90	6.10	5.25	6.05	5.80	4.65	4.65
ART+INT	4.40	3.30	3.20	2.35	3.20	2.40	3.05	3.05	2.75	2.85
Puri & Sen	4.70	4.25	4.30	3.45	4.20	4.20	4.60	4.35	3.20	3.50
v.d.Waerden	4.60	4.00	3.70	3.20	4.15	3.80	4.95	3.90	3.30	3.40
ATS	5.15	4.95	4.40	3.75	4.45	4.65	5.20	4.65	3.55	3.65

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	5.50	5.90	4.85	5.95	5.70	5.80	6.10	5.90	5.95
RT	5.95	6.95	7.20	8.10	9.35	9.85	12.20	13.05	14.65	14.45
INT	6.15	7.65	8.00	8.60	10.05	10.75	12.65	13.80	14.55	15.15
ART	4.00	4.15	4.85	5.65	6.65	6.75	8.20	11.05	10.45	9.75
ART+INT	2.75	3.10	3.90	4.75	5.45	5.80	7.80	9.85	9.85	10.10
Puri & Sen	5.60	6.65	7.05	7.75	9.10	9.80	12.10	12.80	14.70	14.20
v.d.Waerden	5.25	7.45	7.50	8.20	9.85	10.35	12.20	13.55	14.20	14.95
ATS	4.55	5.70	6.25	7.00	8.40	9.00	10.50	11.50	12.75	13.15

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.25	7.55	6.90	7.45	7.40	7.20	7.05	8.35	6.95	7.55
RT	8.20	10.30	11.15	14.60	18.05	21.10	22.75	25.80	26.40	30.15
INT	9.65	11.95	13.40	17.60	21.90	24.95	28.25	31.55	32.45	38.35
ART	5.40	6.10	6.30	8.55	11.25	12.60	15.20	18.05	19.40	21.85
ART+INT	3.65	4.55	4.80	7.50	10.90	12.65	16.35	19.30	22.35	24.60
Puri & Sen	7.75	9.60	10.80	14.25	17.45	20.60	22.30	25.45	26.05	29.85
v.d.Waerden	8.60	11.35	13.10	17.05	21.35	24.25	27.70	30.90	31.95	37.35
ATS	6.90	8.75	9.70	12.30	16.50	19.30	20.55	23.40	24.50	27.85

6.5.3 Factor B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.00	4.50	4.55	4.00	5.15	4.70	4.85	3.85	4.35	4.40
RT	5.60	5.15	5.55	5.30	5.10	4.65	4.75	4.30	3.95	4.70
INT	5.75	5.35	5.15	5.20	5.50	4.80	5.15	4.10	4.00	4.55
ART	6.10	5.15	5.15	5.30	5.05	4.50	4.90	4.65	4.20	4.85
ART+INT	5.25	4.45	4.90	5.05	5.25	4.50	5.10	4.05	3.85	4.60
Puri & Sen	4.70	4.85	5.40	5.10	5.00	4.50	4.75	4.35	3.95	4.70
v.d.Waerden	5.15	4.90	5.00	5.15	5.35	4.55	5.00	4.00	3.95	4.55
ATS	4.55	5.15	5.45	5.20	5.05	4.60	4.70	4.30	3.90	4.70

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.45	4.55	4.65	4.35	4.75	5.00	4.80	5.15	5.25	5.25
RT	6.60	8.15	8.70	9.10	11.50	13.10	15.80	15.90	17.85	19.00
INT	5.80	7.95	7.65	8.70	10.25	11.55	13.65	14.00	15.50	16.75
ART	5.85	8.05	8.60	8.95	10.15	11.65	15.25	14.90	17.05	18.05
ART+INT	4.50	6.55	6.40	7.25	8.70	10.35	12.95	12.65	13.90	15.05
Puri & Sen	5.55	8.00	8.50	8.90	11.25	12.65	15.65	15.65	17.65	19.00
v.d.Waerden	5.25	7.50	7.35	8.55	9.95	11.30	13.30	13.75	15.35	16.50
ATS	5.75	7.80	8.40	8.95	11.05	12.70	15.35	15.45	17.55	18.65

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.95	5.25	5.70	5.45	5.50	5.50	5.25	4.80	5.45	5.65
RT	10.85	17.30	24.55	30.25	36.85	45.50	53.45	58.65	63.90	67.80
INT	10.15	16.20	21.70	25.90	32.95	39.95	46.85	52.20	57.60	63.65
ART	9.35	15.25	20.70	26.10	32.10	40.20	48.50	53.40	58.95	64.25
ART+INT	6.40	11.75	17.35	20.45	27.80	34.50	41.65	45.85	51.90	59.00
Puri & Sen	9.50	16.35	24.05	29.80	36.45	45.15	53.35	58.30	63.55	67.60
v.d.Waerden	8.95	15.10	21.10	25.65	32.25	39.80	46.50	51.70	57.55	63.35
ATS	9.05	16.10	23.45	29.25	35.75	44.60	52.75	57.65	63.05	67.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.40	4.40	4.30	4.25	4.60	4.40	5.60	4.25	4.80	5.70
RT	6.10	5.90	6.65	5.95	6.15	7.75	8.30	7.30	8.20	9.55
INT	6.25	5.70	6.20	5.80	6.05	7.50	8.20	8.10	8.70	10.25
ART	6.30	5.90	6.55	6.25	6.30	7.40	8.35	7.40	8.30	9.45
ART+INT	5.40	5.25	5.45	4.85	5.30	6.75	7.60	7.05	8.15	9.40
Puri & Sen	5.40	5.65	6.20	5.55	5.90	7.55	8.10	7.10	7.85	9.45
v.d.Waerden	5.50	5.30	5.85	5.55	5.80	7.10	7.90	7.80	8.60	9.95
ATS	5.20	5.75	6.30	5.85	6.10	7.65	8.25	7.20	8.10	9.50

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	5.25	4.15	5.10	5.20	5.25	4.90	5.00	5.45	5.20
RT	7.60	11.20	14.70	17.90	21.65	26.65	33.35	34.65	40.25	42.25
INT	6.95	10.90	13.40	16.70	20.25	25.65	31.30	32.25	37.05	39.80
ART	7.75	10.15	12.40	16.30	19.35	24.80	30.50	32.40	37.30	39.65
ART+INT	5.55	8.30	10.65	13.70	16.45	22.25	27.00	28.45	32.45	35.70
Puri & Sen	6.65	10.40	13.80	17.15	21.15	26.35	32.55	34.10	39.75	41.75
v.d.Waerden	6.45	10.10	12.40	16.20	19.75	25.10	30.85	31.95	36.10	39.15
ATS	6.30	10.65	14.00	17.25	20.95	26.30	32.65	34.35	39.55	41.60

6.5.4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.50	5.40	4.45	5.75	4.70	4.80	5.15	5.90	5.00
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	3.70	3.15	2.45	3.05	3.20	3.05	2.35	3.10	2.70	3.05
ART+INT	2.30	2.15	1.75	2.45	2.45	2.95	2.25	2.85	2.60	2.90
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.55	5.80	5.40	5.55	5.30	4.80	5.10	5.75	5.10	5.30
RT	7.65	12.25	16.65	20.40	24.75	26.95	32.00	37.10	41.10	44.30
INT	7.35	11.85	15.55	18.95	22.55	25.90	28.90	34.70	38.60	41.75
ART	4.95	6.80	9.85	14.30	16.65	20.85	25.80	29.15	34.95	39.05
ART+INT	2.95	4.90	7.80	12.45	14.90	18.00	23.75	26.55	33.40	36.35
Puri & Sen	7.45	11.55	16.15	20.00	24.55	26.85	31.75	36.70	40.55	44.00
v.d.Waerden	7.10	11.50	15.15	18.60	22.20	25.35	28.75	34.40	38.40	41.50
ATS	6.25	9.90	13.55	17.00	21.55	23.80	27.35	32.10	35.35	38.75

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	7.00	6.60	6.25	6.00	5.65	5.15	5.65	5.50	4.95	5.50
RT	19.25	35.30	51.70	65.80	78.20	85.80	91.35	94.10	96.40	98.20
INT	17.05	32.90	47.65	61.90	73.75	82.40	89.00	92.80	95.35	97.55
ART	11.60	20.65	35.80	50.25	64.00	76.20	84.10	89.55	93.80	96.35
ART+INT	7.80	16.05	30.60	44.10	58.15	70.90	80.50	86.65	92.00	95.20
Puri & Sen	18.15	34.60	51.15	65.50	77.70	85.55	91.20	94.00	96.35	98.20
v.d.Waerden	16.30	31.80	47.40	61.75	73.75	82.20	88.90	92.65	95.30	97.45
ATS	11.60	27.80	43.95	57.80	72.05	80.20	87.80	91.65	94.70	97.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.30	6.90	6.60	6.75	6.70	6.20	5.85	7.30	6.25	6.15
RT	6.65	8.90	10.40	12.80	14.60	15.50	17.70	20.55	23.20	25.35
INT	6.85	9.15	11.20	13.40	14.80	16.40	19.90	22.55	24.55	27.00
ART	3.90	5.50	6.25	8.20	8.95	11.10	12.05	14.80	16.15	18.95
ART+INT	2.50	3.85	4.90	7.65	7.60	9.60	11.90	14.25	15.15	18.75
Puri & Sen	6.25	8.85	9.70	12.55	14.05	15.05	17.40	20.30	22.95	24.95
v.d.Waerden	6.30	8.70	10.85	13.00	14.55	16.10	19.55	22.35	24.40	26.85
ATS	4.25	7.35	7.80	9.90	11.15	12.30	14.00	16.90	17.65	19.65

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.80	7.60	8.10	7.25	7.60	7.55	7.90	7.70	6.95	8.15
RT	6.55	9.30	10.85	13.15	16.30	18.45	19.95	22.65	23.20	28.85
INT	7.55	11.65	13.55	15.50	19.60	21.80	24.75	27.50	29.50	34.85
ART	4.45	5.60	6.20	8.30	11.05	13.35	14.60	16.25	18.95	20.95
ART+INT	2.85	3.95	4.75	7.70	10.55	12.65	14.90	16.50	19.35	22.20
Puri & Sen	6.00	8.90	10.25	12.60	15.80	18.05	19.50	22.05	22.90	28.35
v.d.Waerden	6.75	10.55	12.85	14.65	18.90	21.20	23.90	26.85	28.60	33.90
ATS	5.15	8.25	8.50	9.90	12.35	15.40	15.75	16.60	18.20	23.30

6.5.5 Interaction A*B - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.55	4.05	4.55	5.30	5.25	4.90	5.25	5.00	5.00	4.75
RT	4.95	4.60	4.85	5.40	5.50	5.05	5.90	4.55	5.80	4.95
INT	4.70	4.65	4.95	5.35	5.20	5.20	5.65	4.95	5.45	4.85
ART	5.30	4.60	5.80	5.55	5.40	5.05	5.90	4.85	5.95	4.80
ART+INT	4.55	4.60	5.15	5.80	5.40	5.10	5.75	4.40	5.70	4.70
Puri & Sen	4.80	4.40	4.60	5.20	5.45	4.80	5.80	4.55	5.65	4.75
v.d.Waerden	4.30	4.10	4.85	5.35	5.15	4.95	5.55	5.00	5.35	4.85
ATS	4.55	4.40	4.70	5.20	5.50	5.05	5.80	4.55	5.80	4.85

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.80	5.20	4.55	4.75	3.85	4.95	4.70	4.85	4.35	4.35
RT	5.55	4.85	5.65	5.35	4.65	4.15	5.15	4.60	5.45	4.95
INT	5.80	5.15	5.45	5.05	4.50	4.20	4.70	4.95	4.95	5.00
ART	6.75	5.85	5.75	5.70	4.60	4.30	5.50	4.80	5.40	4.90
ART+INT	6.00	5.65	5.40	5.45	4.15	4.20	5.50	4.55	4.65	4.60
Puri & Sen	5.00	4.75	5.20	5.30	4.50	4.15	5.05	4.50	5.30	4.90
v.d.Waerden	5.30	4.60	4.90	4.75	4.40	4.00	4.60	4.90	4.95	4.90
ATS	4.95	4.75	5.35	5.30	4.55	4.10	5.10	4.55	5.40	4.95

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.25	4.70	4.65	5.15	4.20	5.20	5.40	4.70	4.75	4.85
RT	6.00	5.10	5.30	4.80	4.95	4.45	5.40	4.95	5.30	5.20
INT	6.40	5.20	5.65	4.65	5.30	4.65	5.65	5.10	4.90	5.25
ART	7.90	6.50	5.75	5.65	5.00	5.05	6.20	5.40	5.55	4.90
ART+INT	6.60	5.45	5.20	5.00	4.65	4.20	5.00	4.50	4.55	4.45
Puri & Sen	4.90	4.80	4.45	4.40	4.45	4.25	4.80	4.30	4.85	4.80
v.d.Waerden	5.60	4.65	5.15	4.30	4.65	4.45	5.10	4.65	4.70	4.95
ATS	5.30	4.80	5.20	4.80	4.70	4.30	5.20	4.85	5.25	5.15

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.60	4.05	4.60	4.65	5.25	5.50	3.80	4.55	4.10	3.75
RT	5.90	5.25	6.70	6.80	6.75	7.50	7.60	8.55	9.05	7.60
INT	6.10	5.35	6.70	6.80	6.75	7.70	7.80	8.55	8.55	8.15
ART	6.25	5.40	6.85	7.20	6.75	7.70	7.60	8.15	8.80	7.65
ART+INT	5.75	4.80	6.05	6.55	5.90	7.60	6.70	7.90	7.85	7.45
Puri & Sen	5.20	4.90	6.30	6.50	6.40	7.40	7.40	8.40	8.65	7.45
v.d.Waerden	5.20	4.95	6.40	6.65	6.50	7.50	7.65	8.30	8.45	7.80
ATS	5.20	5.05	6.50	6.70	6.60	7.50	7.45	8.55	9.00	7.55

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.10	4.65	4.95	5.85	4.95	4.40	5.00	4.85	5.20	4.95
RT	6.15	8.20	9.00	11.05	12.65	13.30	15.45	18.20	18.15	20.00
INT	6.00	8.05	9.05	10.45	12.95	13.95	14.80	17.95	18.65	20.05
ART	6.70	7.70	8.75	10.60	11.70	13.50	14.70	17.85	17.75	18.95
ART+INT	5.25	6.05	7.85	8.70	10.10	11.85	12.60	14.75	16.40	17.35
Puri & Sen	5.25	7.30	8.10	10.20	12.30	12.90	14.80	17.40	17.45	19.20
v.d.Waerden	5.15	7.15	8.15	9.60	12.20	13.20	14.00	17.00	17.90	19.25
ATS	5.30	7.80	8.70	11.00	12.65	13.25	15.30	18.15	18.10	19.90

6.5.6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.20	5.70	5.75	5.10	5.50	6.20	5.25	5.90	5.50	5.05
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	5.05	5.15	4.45	4.40	5.10	5.35	4.50	4.65	4.60	5.00
ART+INT	5.90	5.20	5.30	4.60	5.20	5.90	4.20	4.50	5.00	4.55
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.75	5.60	6.05	5.60	6.80	6.40	6.30	6.10	4.65	5.35
RT	4.95	5.30	6.05	4.35	5.80	5.35	5.90	5.65	5.60	5.50
INT	5.45	5.25	6.05	5.35	6.05	5.75	6.05	5.60	5.80	5.55
ART	5.95	5.90	5.90	5.30	6.25	5.45	5.90	5.55	5.85	5.45
ART+INT	5.85	5.50	5.65	5.00	5.85	5.80	5.50	5.00	5.25	5.45
Puri & Sen	3.60	4.65	5.35	4.10	5.35	4.80	5.50	5.25	5.30	5.30
v.d.Waerden	3.95	4.70	5.40	4.95	5.40	5.50	5.55	5.10	5.45	5.20
ATS	4.55	4.15	5.85	4.85	6.25	5.45	5.35	5.25	5.55	5.40

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.70	6.05	6.30	5.50	6.20	6.30	5.10	6.40	4.70	5.00
RT	5.45	4.90	5.90	4.85	5.30	4.85	5.55	5.80	5.45	5.50
INT	5.65	5.00	5.40	5.05	5.30	5.50	5.55	5.95	5.15	5.25
ART	6.30	6.45	6.60	5.75	6.50	5.80	6.00	5.95	6.00	5.60
ART+INT	5.45	5.45	5.05	4.30	5.15	5.05	4.75	4.40	4.60	4.90
Puri & Sen	2.80	3.55	5.15	3.95	4.20	4.20	4.75	4.70	4.25	4.90
v.d.Waerden	3.50	4.10	4.55	4.20	4.40	4.75	4.85	4.80	4.55	4.70
ATS	3.85	4.30	5.95	4.70	5.65	5.15	5.20	5.40	5.70	5.05

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.50	7.50	8.05	7.25	7.30	7.80	7.30	6.55	6.35	8.10
RT	5.75	6.30	7.25	7.90	7.70	9.70	9.10	9.40	10.90	11.15
INT	6.70	7.05	8.65	8.25	9.30	10.75	10.15	10.90	11.40	12.15
ART	6.95	6.25	7.65	8.30	8.55	9.90	9.15	9.40	10.65	11.25
ART+INT	7.20	6.70	8.10	8.35	8.40	9.60	9.40	9.65	10.60	11.35
Puri & Sen	4.20	5.30	6.25	7.40	7.10	9.10	8.75	8.85	10.45	10.50
v.d.Waerden	4.65	5.95	7.90	7.45	8.50	10.30	9.45	10.25	11.00	11.45
ATS	4.05	4.35	5.40	6.30	5.80	7.40	6.55	7.30	8.20	8.40

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.00	7.85	7.95	8.85	8.20	8.25	8.95	7.65	9.05	8.95
RT	7.45	8.80	9.75	11.85	13.25	16.65	18.55	20.00	21.90	24.10
INT	8.35	11.25	12.70	15.10	17.85	21.35	25.35	25.65	26.90	31.90
ART	8.25	9.30	10.25	12.45	13.80	17.15	19.30	20.15	22.15	25.05
ART+INT	8.50	9.50	10.45	13.15	15.40	18.60	21.80	22.75	24.50	28.50
Puri & Sen	5.50	7.45	8.80	11.10	12.80	16.10	17.85	19.55	21.20	23.10
v.d.Waerden	6.25	9.55	11.30	13.90	16.90	20.45	24.50	24.95	26.10	31.10
ATS	4.40	7.00	6.85	9.40	10.15	12.85	14.05	15.80	16.65	19.30

6. 6. Type I error rates -Parameters 3.5 / 0.3

6. 6. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.70	5.40	5.20	4.15	4.80	4.50	4.50	4.70	5.05	4.50
RT	6.20	5.15	5.35	4.50	5.50	4.60	5.00	4.60	5.00	5.35
INT	6.30	5.05	5.60	4.15	5.20	4.65	4.75	5.00	5.10	5.25
ART	6.05	5.20	5.20	4.50	5.15	4.35	4.85	4.65	5.15	5.50
ART+INT	5.65	5.05	5.45	4.05	5.30	4.60	4.80	4.80	4.95	5.20
Puri & Sen	6.20	5.20	5.45	4.40	5.35	4.55	5.00	4.65	5.10	5.40
v.d.Waerden	6.05	5.30	5.70	4.30	5.25	4.65	4.70	4.95	5.00	5.25
ATS	5.90	5.15	5.30	4.45	5.50	4.60	5.00	4.60	5.00	5.35

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.45	4.95	4.60	5.70	5.20	4.95	5.75	4.70	4.65	5.45
RT	4.90	4.75	4.90	5.40	5.00	4.80	5.65	4.65	4.35	5.20
INT	5.15	4.60	4.45	5.40	5.10	5.15	5.85	4.60	4.75	4.65
ART	5.30	5.30	5.20	5.65	5.30	5.30	5.90	5.00	5.15	5.10
ART+INT	4.90	4.85	4.60	5.30	4.60	5.05	5.60	4.50	4.45	4.45
Puri & Sen	4.70	4.60	4.70	5.40	4.90	4.90	5.75	4.55	4.35	5.25
v.d.Waerden	4.65	4.75	4.35	5.40	4.85	5.00	5.75	4.70	4.60	4.65
ATS	4.60	4.70	4.75	5.40	5.00	4.80	5.65	4.65	4.35	5.20

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.70	4.60	5.00	5.30	5.50	4.80	5.60	4.90	4.80	5.30
RT	4.90	4.60	4.65	5.35	4.85	4.90	5.90	4.85	4.45	4.90
INT	5.00	5.05	4.80	5.60	5.30	4.80	5.60	4.55	4.85	4.70
ART	6.45	6.00	5.70	6.35	6.15	6.20	6.85	5.90	5.95	5.70
ART+INT	4.95	4.95	4.55	5.05	4.40	4.75	5.50	4.10	4.50	4.15
Puri & Sen	4.65	4.50	4.55	5.20	4.60	4.65	5.65	4.65	4.25	4.85
v.d.Waerden	4.30	4.80	4.55	5.50	5.15	4.60	5.50	4.40	4.65	4.60
ATS	4.60	4.50	4.60	5.35	4.85	4.90	5.85	4.85	4.45	4.90

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.85	5.10	4.65	5.75	4.70	4.70	4.95	5.50	4.85	5.25
RT	4.95	5.80	4.85	6.75	7.15	6.80	7.50	8.40	7.90	9.80
INT	5.10	5.90	5.50	7.45	6.85	6.40	7.60	8.45	7.90	9.65
ART	5.15	6.40	4.75	7.30	7.30	6.75	7.50	8.50	7.80	9.80
ART+INT	4.30	5.80	4.90	6.90	6.40	6.30	7.25	8.30	7.60	9.45
Puri & Sen	4.65	5.70	4.85	6.80	7.05	6.85	7.20	8.25	7.75	9.75
v.d.Waerden	4.70	5.60	5.50	7.45	6.75	6.45	7.55	8.40	7.95	9.70
ATS	4.65	5.75	4.75	6.70	7.15	6.80	7.50	8.40	7.90	9.80

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.75	5.25	5.15	4.60	4.80	4.85	5.20	5.20	5.00	5.25
RT	5.30	5.25	5.95	5.25	6.75	6.60	6.80	6.95	6.70	7.10
INT	5.50	5.85	6.05	5.75	6.70	6.85	6.50	8.25	7.35	8.30
ART	6.85	6.35	6.90	6.40	7.65	7.40	8.05	8.05	8.05	8.55
ART+INT	5.75	5.45	6.00	5.70	6.90	6.55	6.25	7.70	7.15	8.50
Puri & Sen	5.35	5.05	5.85	5.05	6.45	6.30	6.65	6.85	6.55	7.00
v.d.Waerden	5.00	5.30	5.95	5.35	6.40	6.50	6.40	8.00	7.35	7.95
ATS	5.25	5.15	5.95	5.25	6.75	6.55	6.80	6.95	6.70	7.10

6. 6. 2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.55	5.20	4.10	3.90	4.50	4.60	5.15	5.05	5.60	5.00
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.20	2.75	2.85	2.25	2.70	2.15	2.45	3.50	3.15	2.90
ART+INT	2.55	2.40	2.20	1.90	2.30	1.85	2.40	3.15	2.50	2.85
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.65	6.05	5.25	4.25	5.25	4.80	6.20	5.05	4.70	4.50
RT	5.90	5.40	4.70	4.00	5.00	4.50	5.40	4.80	4.15	3.85
INT	6.30	5.50	5.00	4.40	5.00	5.25	5.95	5.15	4.85	4.05
ART	4.55	3.45	3.60	2.75	3.35	3.10	3.45	3.50	2.60	2.95
ART+INT	3.05	2.95	2.80	2.20	2.55	2.05	3.05	2.50	2.25	1.90
Puri & Sen	5.20	5.10	4.75	3.85	5.00	4.40	5.30	4.80	4.00	3.80
v.d.Waerden	5.65	5.35	4.70	4.35	4.90	5.20	5.85	5.15	4.55	4.05
ATS	5.55	4.90	4.40	3.90	4.75	4.35	5.55	4.75	3.65	3.85

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.30	5.20	4.20	3.40	4.20	3.90	5.05	4.05	3.20	3.50
RT	5.25	4.70	4.30	3.55	4.35	4.45	4.90	4.80	3.65	3.65
INT	5.60	4.50	4.25	3.50	4.40	4.05	5.25	4.30	3.60	3.70
ART	7.00	5.30	4.75	4.05	4.75	4.30	5.15	4.70	3.75	3.95
ART+INT	4.15	2.80	2.85	2.35	2.55	2.35	3.10	2.90	2.40	1.90
Puri & Sen	4.70	4.45	4.20	3.45	4.20	4.15	4.70	4.30	3.45	3.50
v.d.Waerden	4.90	4.10	3.80	3.30	4.20	3.85	5.05	4.20	3.35	3.50
ATS	5.10	4.80	4.50	3.70	4.50	4.45	5.10	4.65	3.50	3.75

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.00	5.75	5.65	5.10	6.15	6.05	6.25	6.75	5.90	6.40
RT	5.85	5.95	5.75	6.00	7.15	7.95	8.75	9.70	9.25	8.95
INT	5.80	6.80	6.85	6.30	7.50	8.35	8.65	10.20	9.50	9.95
ART	3.10	3.55	3.80	4.00	5.00	4.15	5.40	6.75	6.50	5.65
ART+INT	2.80	3.05	3.60	3.65	4.25	4.00	4.65	6.05	5.60	5.45
Puri & Sen	5.20	5.85	5.70	5.90	6.80	7.90	8.60	9.60	9.15	8.85
v.d.Waerden	5.40	6.35	6.45	6.20	7.25	8.10	8.45	10.10	9.40	9.80
ATS	4.50	5.15	5.15	5.50	6.35	6.90	8.10	8.45	7.85	8.20

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.45	8.05	7.55	7.80	8.15	7.30	7.75	8.40	7.00	7.80
RT	7.55	7.80	8.20	9.70	12.05	12.90	14.05	15.05	15.60	16.30
INT	8.75	9.55	10.00	12.30	14.60	15.50	17.25	18.85	19.70	21.70
ART	4.20	4.55	4.40	5.65	6.70	7.75	9.05	9.70	10.35	10.90
ART+INT	3.40	3.75	3.65	4.70	6.85	7.45	8.65	10.30	10.90	11.90
Puri & Sen	7.15	7.65	7.95	9.65	11.75	12.55	13.85	14.80	15.35	16.05
v.d.Waerden	7.70	9.00	9.50	12.10	14.10	15.20	16.85	18.70	19.65	21.35
ATS	6.25	6.85	6.85	8.20	10.40	11.00	12.85	13.45	14.10	14.20

6. 6. 3 Factor B - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.35	4.70	4.95	4.60	5.55	4.70	5.05	4.05	4.35	4.50
RT	5.60	5.15	5.55	5.30	5.10	4.65	4.75	4.30	3.95	4.70
INT	5.75	5.35	5.15	5.20	5.50	4.80	5.15	4.10	4.00	4.55
ART	5.65	5.05	5.50	5.20	4.90	4.55	4.80	4.55	4.10	4.80
ART+INT	5.50	4.65	5.00	5.25	5.50	4.50	5.10	4.10	4.10	4.75
Puri & Sen	4.70	4.85	5.40	5.10	5.00	4.50	4.75	4.35	3.95	4.70
v.d.Waerden	5.15	4.90	5.00	5.15	5.35	4.55	5.00	4.00	3.95	4.55
ATS	4.55	5.15	5.45	5.20	5.05	4.60	4.70	4.30	3.90	4.70

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.45	4.95	4.55	4.70	4.95	5.10	5.00	5.10	5.45	5.05
RT	6.15	6.95	6.40	6.55	7.30	8.95	10.70	9.55	10.10	10.70
INT	5.55	6.05	5.85	6.55	6.90	8.20	9.50	8.20	8.90	9.30
ART	6.00	7.05	6.40	6.70	7.20	8.55	10.30	9.15	9.55	10.55
ART+INT	5.25	6.20	5.80	6.30	6.70	8.20	9.25	7.60	8.35	9.00
Puri & Sen	5.10	6.45	6.10	6.40	7.00	8.75	10.45	9.40	10.00	10.65
v.d.Waerden	4.70	5.95	5.50	6.20	6.85	8.05	9.55	8.20	8.80	9.20
ATS	5.15	6.55	5.85	6.45	7.25	8.75	10.60	9.15	10.00	10.60

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.25	5.80	5.10	5.45	5.35	5.75	5.30	4.80	5.80	5.45
RT	8.20	11.95	14.15	15.95	20.85	24.70	29.10	31.60	34.55	39.15
INT	7.35	10.70	12.35	13.10	17.40	20.20	24.10	26.55	29.25	33.20
ART	7.25	10.50	12.90	14.45	19.55	22.85	26.70	29.55	32.40	37.25
ART+INT	6.15	9.20	11.15	11.70	15.70	18.10	22.05	24.30	27.20	31.05
Puri & Sen	7.05	11.35	13.75	15.40	20.65	24.30	28.70	31.40	34.15	38.90
v.d.Waerden	6.40	10.45	11.85	12.55	17.10	20.15	24.00	26.40	28.90	32.95
ATS	6.90	11.00	12.95	14.95	20.05	23.75	28.05	30.30	33.45	37.95

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.85	5.05	4.35	4.20	5.00	4.40	5.80	4.50	5.00	5.85
RT	5.90	5.45	5.90	4.90	4.90	5.90	6.30	5.30	6.25	7.75
INT	5.85	5.55	5.35	4.70	5.00	5.95	6.95	5.75	6.50	7.85
ART	6.35	6.00	6.00	5.10	5.70	6.35	6.60	5.60	6.50	7.80
ART+INT	5.55	5.45	5.40	4.80	4.75	5.85	6.80	5.40	6.25	7.70
Puri & Sen	5.15	5.35	5.35	4.65	4.80	5.80	6.15	5.10	6.10	7.70
v.d.Waerden	5.25	5.25	5.10	4.70	4.75	5.70	6.95	5.50	6.30	7.70
ATS	5.10	5.35	5.60	4.65	4.85	5.85	6.30	5.25	6.25	7.75

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.30	5.95	4.05	5.15	5.70	5.10	5.05	4.80	5.85	5.00
RT	6.15	8.80	9.25	11.00	12.15	15.50	18.50	18.30	20.40	22.15
INT	5.55	8.25	8.45	10.10	11.35	13.55	16.30	15.70	18.15	19.50
ART	6.95	8.75	8.90	11.35	11.60	15.10	17.70	17.55	20.10	22.05
ART+INT	5.70	7.65	7.50	9.75	10.50	12.20	14.75	14.85	17.50	18.20
Puri & Sen	5.40	8.20	8.30	10.75	11.85	15.10	18.05	17.90	20.10	21.75
v.d.Waerden	5.25	7.60	7.35	9.85	10.50	13.45	15.95	15.40	17.85	19.25
ATS	4.70	8.35	8.65	10.70	11.65	15.05	17.90	17.75	19.90	21.50

6. 6. 4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.65	5.50	4.80	4.85	5.90	4.90	4.85	5.15	5.35	5.60
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	3.15	3.05	2.35	2.95	2.85	2.55	1.80	2.60	2.55	2.25
ART+INT	2.35	2.65	2.00	2.45	2.60	2.70	2.15	2.40	2.45	2.60
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.40	5.90	5.35	5.50	5.35	4.65	5.30	5.50	5.50	4.85
RT	6.65	7.65	9.45	11.60	13.40	14.05	16.15	18.15	20.60	21.30
INT	6.25	8.40	9.00	10.25	12.95	12.85	14.90	17.00	18.30	18.45
ART	3.75	4.50	5.65	7.80	7.40	9.70	11.55	13.60	16.15	15.95
ART+INT	2.85	3.75	4.55	6.45	6.05	8.20	10.25	11.05	13.95	14.00
Puri & Sen	5.90	7.10	9.30	11.40	13.30	13.95	16.10	18.20	20.40	21.20
v.d.Waerden	6.20	7.75	8.80	10.20	12.45	12.75	14.85	16.70	18.20	18.25
ATS	5.40	7.05	8.10	10.10	11.90	12.40	13.80	15.65	17.35	17.50

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.40	6.35	6.45	5.65	5.80	4.55	5.90	5.60	5.10	5.05
RT	12.00	19.70	29.25	36.25	46.05	52.10	61.70	67.90	74.00	78.80
INT	10.20	16.90	25.00	30.85	40.25	45.90	54.65	61.55	68.45	74.60
ART	6.90	11.55	20.00	27.30	36.65	43.00	54.60	60.90	67.40	73.70
ART+INT	5.15	9.20	16.45	22.50	30.60	37.75	47.20	53.55	61.75	67.95
Puri & Sen	11.65	19.30	28.60	35.85	45.80	51.75	61.30	67.55	73.70	78.80
v.d.Waerden	9.70	16.65	24.55	30.25	40.05	45.55	54.30	61.70	68.15	74.60
ATS	7.20	15.60	23.65	30.50	39.25	45.50	54.80	61.65	67.85	73.30

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.40	6.60	6.80	6.85	6.30	6.40	5.50	6.75	6.45	6.45
RT	6.30	7.10	7.55	8.80	9.10	9.85	10.25	13.05	13.55	12.95
INT	6.25	6.95	8.35	9.10	9.15	10.50	11.35	14.00	14.10	14.15
ART	3.05	4.75	4.65	5.30	5.75	5.60	5.85	7.80	8.35	9.10
ART+INT	2.30	3.65	3.80	5.10	5.00	5.20	4.90	6.70	7.45	8.65
Puri & Sen	5.90	6.80	7.30	8.40	8.90	9.75	10.05	13.05	13.35	12.90
v.d.Waerden	5.85	6.75	7.95	8.95	9.15	10.35	11.00	13.75	13.90	14.05
ATS	4.10	6.25	6.00	7.35	7.40	7.55	8.60	10.10	10.50	10.50

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.25	7.85	8.30	7.60	7.80	7.95	7.85	8.00	7.25	8.50
RT	5.90	7.65	7.70	9.25	10.45	12.40	12.45	13.45	13.70	17.20
INT	6.75	8.70	9.85	11.00	12.75	14.30	14.80	16.20	16.85	20.65
ART	3.30	4.90	4.60	5.70	7.25	8.20	7.85	9.60	10.35	11.75
ART+INT	2.60	3.65	4.15	4.85	6.30	7.40	7.60	9.05	10.35	12.10
Puri & Sen	5.15	7.15	7.35	8.40	10.40	12.20	12.25	13.05	13.40	16.75
v.d.Waerden	5.90	8.45	9.40	10.65	12.45	13.55	14.60	15.80	16.65	20.60
ATS	4.70	6.45	6.25	6.85	7.95	10.90	9.85	10.55	10.30	13.10

6. 6. 5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.65	3.90	5.00	5.40	5.45	5.25	5.65	4.80	5.50	4.65
RT	4.95	4.60	4.85	5.40	5.50	5.05	5.90	4.55	5.80	4.95
INT	4.70	4.65	4.95	5.35	5.20	5.20	5.65	4.95	5.45	4.85
ART	5.20	4.75	5.75	5.20	5.50	5.00	5.95	4.70	5.95	4.70
ART+INT	4.70	4.60	5.20	5.50	5.30	5.15	5.75	4.80	5.50	4.95
Puri & Sen	4.80	4.40	4.60	5.20	5.45	4.80	5.80	4.55	5.65	4.75
v.d.Waerden	4.30	4.10	4.85	5.35	5.15	4.95	5.55	5.00	5.35	4.85
ATS	4.55	4.40	4.70	5.20	5.50	5.05	5.80	4.55	5.80	4.85

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.25	5.25	5.35	5.05	3.80	4.80	5.30	5.10	4.75	4.25
RT	5.80	4.95	5.45	5.35	4.60	4.00	5.10	4.85	5.60	5.05
INT	6.00	5.10	5.40	5.05	4.60	4.25	5.00	4.90	5.10	5.10
ART	6.30	5.90	5.25	5.40	4.85	4.40	5.30	5.40	5.65	5.00
ART+INT	6.35	5.30	5.40	5.00	4.25	4.15	5.15	4.70	4.85	4.80
Puri & Sen	5.10	4.75	4.95	5.30	4.55	4.05	5.15	4.70	5.55	4.95
v.d.Waerden	5.35	4.50	5.05	5.00	4.35	4.10	4.75	4.85	4.95	4.95
ATS	4.95	4.85	5.35	5.35	4.55	4.00	5.00	4.70	5.60	5.05

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.85	5.45	4.95	5.35	4.80	5.40	5.85	5.00	4.90	5.45
RT	6.05	5.20	5.45	4.75	5.05	4.65	5.75	5.00	5.30	5.25
INT	6.50	5.30	5.90	4.75	5.40	4.90	5.85	5.15	5.05	5.30
ART	7.20	5.90	5.90	5.55	5.45	5.60	6.15	5.75	5.70	5.20
ART+INT	7.00	5.60	5.85	5.00	5.00	4.80	5.55	4.75	4.95	5.00
Puri & Sen	5.25	5.00	4.75	4.30	4.70	4.45	5.35	4.65	4.95	5.20
v.d.Waerden	5.80	4.80	5.55	4.65	5.25	4.90	5.65	4.75	4.95	5.30
ATS	5.05	5.10	5.25	4.70	4.95	4.50	5.60	4.90	5.15	5.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.35	4.40	5.00	4.80	5.35	5.30	4.15	5.05	4.10	3.85
RT	6.00	4.90	6.30	5.90	5.45	6.30	6.10	6.35	6.60	5.75
INT	5.90	4.80	6.05	5.95	6.00	6.00	5.95	6.10	6.10	5.50
ART	6.10	5.20	6.55	6.05	6.20	6.40	6.10	6.65	6.60	5.75
ART+INT	5.75	4.65	5.95	6.00	5.85	6.00	5.45	6.20	5.70	5.30
Puri & Sen	5.05	4.50	5.85	5.80	5.25	6.10	5.85	6.30	6.30	5.60
v.d.Waerden	5.30	4.25	5.55	5.75	5.95	5.90	5.70	6.00	6.00	5.30
ATS	5.10	4.60	6.20	5.85	5.35	6.20	5.95	6.25	6.45	5.70

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.55	5.10	4.90	5.85	5.10	4.70	5.20	5.55	5.75	5.20
RT	5.65	6.75	6.75	7.65	8.80	9.25	10.75	12.20	11.45	11.50
INT	5.70	6.80	6.70	7.60	9.05	9.20	9.75	10.90	11.05	11.90
ART	6.35	7.15	7.60	8.60	9.65	9.90	10.90	12.85	11.80	12.10
ART+INT	5.40	5.85	6.70	7.45	8.35	8.55	9.45	10.75	10.25	11.50
Puri & Sen	4.80	6.20	6.30	7.45	8.70	8.85	10.25	11.70	10.95	11.20
v.d.Waerden	4.85	6.25	6.15	7.25	8.65	8.65	9.50	10.80	10.70	11.65
ATS	4.85	6.45	6.55	7.40	8.75	9.20	10.60	12.10	11.25	11.30

6. 6. 6 Interaction A*B - unequal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.85	5.00	5.75	4.90	5.45	5.80	4.55	5.30	4.95	4.65
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	4.75	4.85	4.30	4.45	5.00	5.55	4.55	4.65	4.60	4.90
ART+INT	5.35	4.80	5.15	4.45	5.45	5.70	4.20	4.80	4.70	4.65
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.40	6.05	6.00	5.70	6.05	6.10	6.15	5.80	5.25	5.30
RT	4.90	5.30	5.85	4.35	5.80	5.30	5.90	5.65	5.70	5.65
INT	5.50	5.50	5.95	5.35	6.20	5.65	6.25	5.75	5.95	5.60
ART	5.65	5.70	6.15	5.05	6.25	5.45	6.15	5.85	6.35	5.55
ART+INT	5.95	5.90	5.90	5.10	5.95	5.85	5.90	5.65	5.75	5.50
Puri & Sen	3.75	4.55	5.55	4.05	5.55	5.00	5.70	5.35	5.60	5.55
v.d.Waerden	4.20	4.65	5.45	5.05	5.65	5.55	5.85	5.40	5.75	5.30
ATS	4.70	4.15	5.90	4.75	6.60	5.45	5.45	5.40	5.70	5.20

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.30	5.75	5.90	5.60	5.60	6.20	5.70	6.10	4.65	5.60
RT	4.95	5.00	5.85	4.90	5.30	5.05	5.60	5.70	5.35	5.55
INT	6.00	5.05	5.25	5.20	5.40	5.70	5.55	6.20	5.30	5.30
ART	6.10	5.95	7.15	5.90	7.05	6.00	6.40	6.45	6.35	5.95
ART+INT	6.05	5.20	5.50	5.15	5.55	5.40	5.40	5.40	5.35	5.15
Puri & Sen	3.10	3.95	5.15	4.20	4.65	4.55	5.10	5.30	4.75	5.25
v.d.Waerden	3.75	4.35	4.75	4.65	4.70	5.15	5.10	5.50	4.75	4.95
ATS	4.10	4.45	6.00	4.95	5.75	5.15	5.10	5.50	5.65	5.00

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.60	7.75	8.05	7.70	7.20	7.85	7.25	6.55	6.80	8.00
RT	5.70	5.75	6.50	6.85	6.75	8.15	7.00	6.85	8.20	8.50
INT	6.80	6.45	8.15	7.85	7.85	8.65	7.50	8.15	8.90	9.00
ART	6.05	6.10	7.15	7.70	7.40	8.95	7.60	7.45	8.55	8.60
ART+INT	7.20	6.80	8.20	7.85	7.20	8.45	7.30	8.10	8.95	8.95
Puri & Sen	3.75	4.85	5.95	6.45	6.10	7.60	6.55	6.65	7.75	8.15
v.d.Waerden	4.70	5.80	7.45	7.30	7.20	8.30	7.20	8.05	8.60	8.65
ATS	3.95	4.05	5.00	5.35	4.85	5.90	5.05	5.30	6.75	6.05

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.55	8.65	8.80	9.30	8.75	9.25	9.45	8.60	9.70	9.55
RT	6.85	7.70	7.60	9.20	9.65	11.85	12.40	12.85	13.10	14.30
INT	8.10	9.30	10.00	11.15	11.90	15.05	16.75	16.30	16.65	18.45
ART	8.05	8.65	8.35	9.65	10.60	12.85	13.65	13.95	14.15	15.15
ART+INT	8.90	9.00	9.75	11.40	11.70	14.60	16.55	16.25	16.10	18.25
Puri & Sen	5.60	6.65	7.20	8.25	9.15	11.05	11.75	12.60	12.85	13.95
v.d.Waerden	6.30	8.10	9.20	10.55	11.35	14.25	16.25	16.00	16.00	18.10
ATS	4.05	5.90	5.95	6.70	6.40	8.85	9.60	9.10	10.30	10.45

6. 7. Type I error rates -Parameters 4.3 / 0.13

6. 7. 1 Factor A - equal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.95	5.35	5.55	4.35	5.05	4.60	4.55	4.75	4.85	4.75
RT	6.20	5.15	5.35	4.50	5.50	4.60	5.00	4.60	5.00	5.35
INT	6.30	5.05	5.60	4.15	5.20	4.65	4.75	5.00	5.10	5.25
ART	5.95	5.15	5.30	4.50	5.05	4.45	4.95	4.45	5.10	5.40
ART+INT	5.50	5.25	5.40	4.25	4.95	4.75	4.90	4.85	5.00	5.30
Puri & Sen	6.20	5.20	5.45	4.40	5.35	4.55	5.00	4.65	5.10	5.40
v.d.Waerden	6.05	5.30	5.70	4.30	5.25	4.65	4.70	4.95	5.00	5.25
ATS	5.90	5.15	5.30	4.45	5.50	4.60	5.00	4.60	5.00	5.35

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.10	4.65	5.65	5.45	5.30	5.80	4.65	4.55	5.20
RT	4.65	4.85	4.65	5.35	4.90	4.90	5.75	4.65	4.35	5.10
INT	5.00	4.75	4.35	5.35	4.95	5.10	5.85	4.65	4.75	4.45
ART	5.15	5.35	5.05	5.75	5.35	5.15	5.75	4.90	5.10	5.10
ART+INT	5.00	5.05	4.75	5.55	5.10	5.15	5.80	4.90	4.70	4.70
Puri & Sen	4.60	4.90	4.70	5.40	5.00	4.95	5.80	4.60	4.35	5.15
v.d.Waerden	4.70	5.00	4.45	5.35	4.90	4.95	5.80	4.70	4.65	4.45
ATS	4.40	4.80	4.65	5.35	4.80	4.90	5.75	4.65	4.35	5.10

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.80	4.65	4.85	5.60	5.30	5.05	5.90	5.00	4.85	5.05
RT	4.95	4.50	4.60	5.25	4.80	4.80	5.60	4.80	4.50	4.85
INT	5.10	5.10	4.60	5.45	5.15	4.75	5.65	4.40	4.75	4.55
ART	6.20	5.80	5.95	6.65	6.35	6.65	7.00	6.05	6.40	5.75
ART+INT	5.45	5.20	5.25	5.70	5.45	5.45	5.80	5.00	5.30	5.00
Puri & Sen	4.85	4.55	4.50	5.30	4.80	4.80	5.50	4.65	4.35	4.85
v.d.Waerden	4.75	4.95	4.40	5.55	5.10	4.80	5.65	4.45	4.70	4.50
ATS	4.70	4.45	4.55	5.25	4.80	4.80	5.60	4.75	4.45	4.85

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.70	5.35	4.50	5.40	4.70	4.45	4.80	5.20	4.90	5.20
RT	4.50	5.50	4.05	5.85	5.55	4.90	5.40	5.30	6.05	6.45
INT	4.75	5.00	4.40	5.20	5.10	5.10	5.10	5.80	5.70	6.25
ART	4.90	6.25	4.35	6.15	5.50	5.50	5.70	6.10	6.45	6.80
ART+INT	4.65	5.45	4.30	5.40	5.20	5.25	5.35	5.95	5.60	6.50
Puri & Sen	4.35	5.55	3.95	5.75	5.50	4.95	5.50	5.30	5.95	6.50
v.d.Waerden	4.65	4.70	4.45	5.20	5.05	5.10	5.05	5.65	5.50	6.25
ATS	4.25	5.45	4.05	5.85	5.55	4.90	5.40	5.30	6.05	6.45

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.65	5.30	5.25	4.55	5.35	4.95	4.90	5.25	5.35	5.20
RT	5.35	5.30	5.10	4.20	5.85	5.15	6.25	5.45	5.80	5.85
INT	5.25	5.35	5.25	4.50	5.75	5.25	5.60	5.50	5.65	5.70
ART	6.55	6.50	6.95	5.70	7.25	6.85	7.05	6.65	7.25	7.25
ART+INT	5.35	5.55	5.90	5.30	6.00	5.90	5.80	5.55	5.95	6.45
Puri & Sen	5.15	5.20	5.05	4.20	5.70	5.00	6.10	5.30	5.80	5.85
v.d.Waerden	5.40	5.30	5.30	4.05	5.70	5.15	5.50	5.45	5.60	5.60
ATS	5.05	5.25	5.10	4.20	5.80	5.10	6.25	5.45	5.80	5.85

6.7.2 Factor A - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.55	5.15	4.10	3.90	4.60	4.80	4.80	5.30	5.30	5.60
RT	5.20	5.35	4.60	4.35	4.60	4.65	4.85	5.05	5.30	5.10
INT	5.20	5.35	4.40	3.80	4.50	4.70	4.95	5.00	4.80	5.20
ART	3.05	2.70	2.70	1.95	2.55	2.00	2.30	3.35	3.05	2.95
ART+INT	2.85	2.50	2.15	2.00	2.20	1.80	2.15	3.05	2.60	2.90
Puri & Sen	5.00	5.30	4.50	4.40	4.45	4.45	4.85	4.95	5.15	5.15
v.d.Waerden	4.85	5.15	4.20	3.75	4.40	4.70	4.90	4.90	4.75	5.15
ATS	3.95	5.35	4.65	4.35	3.80	4.10	4.60	4.75	5.05	5.05

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.45	6.10	5.15	4.30	5.35	4.85	6.10	5.10	4.90	4.20
RT	5.90	5.20	4.75	3.95	5.10	4.50	5.30	4.85	4.10	3.75
INT	6.35	5.55	5.05	4.60	5.10	5.25	5.90	5.15	4.75	4.20
ART	4.40	3.45	3.35	2.85	3.40	2.95	3.50	3.35	2.40	2.70
ART+INT	3.55	2.80	2.65	2.30	2.35	1.95	3.00	2.40	2.25	2.10
Puri & Sen	5.25	5.25	4.70	3.80	5.05	4.55	5.25	4.85	4.00	3.75
v.d.Waerden	5.70	5.30	4.85	4.65	5.05	5.15	5.85	5.15	4.70	4.15
ATS	5.55	5.00	4.45	3.85	4.95	4.35	5.50	4.65	3.80	3.90

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.75	4.65	4.00	3.25	4.20	3.80	5.20	4.20	3.40	3.45
RT	5.40	4.75	4.30	3.60	4.60	4.25	4.95	4.60	3.65	3.65
INT	5.45	4.55	4.10	3.45	4.40	4.05	5.05	4.40	3.55	3.65
ART	6.15	4.95	4.45	4.25	4.50	4.30	5.30	4.65	3.95	4.00
ART+INT	4.50	3.40	3.30	2.60	2.50	2.60	3.60	3.00	2.55	2.30
Puri & Sen	4.80	4.35	4.25	3.45	4.40	4.20	4.85	4.50	3.55	3.55
v.d.Waerden	5.05	4.40	3.95	3.45	4.25	3.95	4.90	4.35	3.45	3.60
ATS	4.85	4.65	4.15	3.70	4.65	4.40	5.30	4.60	3.80	3.80

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.95	6.00	5.60	5.00	6.00	6.40	6.70	7.10	5.65	6.65
RT	5.15	5.60	5.25	5.35	5.65	6.30	6.55	6.85	5.90	6.20
INT	5.30	6.15	5.95	5.05	6.55	6.55	7.40	7.35	6.30	6.60
ART	3.05	3.25	3.30	3.10	3.95	3.30	3.75	4.35	4.10	4.00
ART+INT	3.05	3.15	3.15	2.80	3.15	2.95	3.40	4.20	2.95	3.70
Puri & Sen	5.05	5.30	5.10	5.35	5.60	6.20	6.45	6.80	5.80	6.10
v.d.Waerden	5.00	6.00	5.80	5.00	6.55	6.50	7.45	7.40	6.20	6.60
ATS	4.30	4.55	4.40	4.30	5.05	5.85	6.05	5.90	5.60	5.95

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	8.40	8.70	7.60	7.85	8.10	7.45	7.55	8.45	7.15	7.40
RT	6.55	6.45	6.25	7.25	7.50	7.35	7.85	8.65	7.40	7.40
INT	7.75	7.90	7.20	8.50	8.65	9.10	9.05	10.05	9.05	9.05
ART	3.95	3.70	3.45	3.50	4.40	3.80	4.90	4.85	4.20	4.20
ART+INT	3.45	3.20	2.95	3.05	3.75	3.25	3.95	4.55	3.60	3.25
Puri & Sen	6.00	6.20	6.35	7.05	7.30	7.10	7.90	8.60	7.35	7.40
v.d.Waerden	7.20	7.40	7.05	8.35	8.60	9.05	8.90	9.90	8.95	8.90
ATS	5.40	5.65	4.85	6.05	6.05	5.90	6.80	7.55	6.15	6.25

6.7.3 Factor B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.40	4.70	5.35	5.15	5.45	4.65	5.05	4.10	4.15	4.55
RT	5.60	5.15	5.55	5.30	5.10	4.65	4.75	4.30	3.95	4.70
INT	5.75	5.35	5.15	5.20	5.50	4.80	5.15	4.10	4.00	4.55
ART	5.50	5.20	5.70	5.10	5.00	4.65	4.95	4.45	4.05	4.80
ART+INT	5.55	5.05	5.25	5.25	5.35	4.75	5.15	4.20	4.05	4.80
Puri & Sen	4.70	4.85	5.40	5.10	5.00	4.50	4.75	4.35	3.95	4.70
v.d.Waerden	5.15	4.90	5.00	5.15	5.35	4.55	5.00	4.00	3.95	4.55
ATS	4.55	5.15	5.45	5.20	5.05	4.60	4.70	4.30	3.90	4.70

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.80	5.60	5.25	5.00	5.30	5.50	5.00	5.25	5.65	5.15
RT	5.60	5.80	5.25	5.35	5.20	6.65	7.20	5.85	5.70	6.55
INT	5.25	5.65	4.90	5.65	5.60	6.05	6.60	5.65	5.90	6.00
ART	5.25	5.40	5.35	5.35	4.85	6.60	7.05	5.80	5.55	6.25
ART+INT	5.05	5.45	5.10	5.70	5.50	5.90	6.65	5.25	5.80	5.85
Puri & Sen	4.80	5.45	5.20	5.05	5.25	6.30	7.10	5.80	5.60	6.40
v.d.Waerden	4.75	5.20	4.90	5.50	5.50	5.90	6.60	5.55	5.80	5.95
ATS	4.50	5.45	5.00	5.10	5.05	6.35	7.05	5.75	5.50	6.35

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.00	5.95	5.70	5.55	5.30	6.40	5.35	5.30	6.00	5.40
RT	6.40	7.35	7.10	7.20	7.95	9.70	10.60	10.20	10.60	11.90
INT	5.70	6.65	6.50	6.65	6.90	7.60	8.75	8.60	8.35	10.50
ART	6.10	6.95	7.05	7.20	7.45	9.40	10.65	9.80	10.25	11.55
ART+INT	5.15	6.50	6.60	6.15	6.80	7.85	8.30	8.45	8.40	10.05
Puri & Sen	5.35	6.85	6.80	7.00	7.85	9.35	10.30	10.00	10.50	11.60
v.d.Waerden	4.80	6.15	6.25	6.30	6.70	7.65	8.60	8.50	8.30	10.45
ATS	4.95	6.50	6.55	6.90	7.60	9.15	9.90	9.65	10.35	11.20

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.55	5.15	4.45	4.40	4.60	4.55	5.6	4.50	5.15	5.70
RT	5.70	5.50	4.95	4.25	4.35	5.20	5.4	4.35	5.15	5.85
INT	5.85	5.65	4.70	4.25	4.60	4.75	5.5	4.85	5.35	6.40
ART	6.20	5.95	5.40	4.75	5.15	5.40	5.9	4.90	5.70	6.70
ART+INT	5.75	5.85	4.75	4.25	4.50	5.00	5.6	4.90	5.25	6.70
Puri & Sen	5.10	5.10	4.80	4.05	4.35	5.10	5.3	4.20	5.15	5.85
v.d.Waerden	5.35	5.10	4.50	4.20	4.45	4.60	5.4	4.80	5.15	6.30
ATS	4.95	5.25	4.80	4.20	4.30	5.15	5.4	4.35	5.05	5.75

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.45	5.85	4.50	5.20	5.35	5.05	5.70	4.95	6.10	5.15
RT	5.05	6.40	5.70	6.50	5.75	7.45	7.80	7.25	9.35	7.90
INT	5.00	6.05	5.30	6.00	5.40	6.40	6.85	6.40	8.00	7.55
ART	6.05	6.95	6.20	6.90	6.75	8.35	8.55	7.65	9.80	8.50
ART+INT	5.70	6.40	5.45	6.35	5.60	6.70	7.35	6.60	7.95	7.55
Puri & Sen	4.70	6.00	5.45	6.10	5.55	7.25	7.60	7.10	9.25	7.85
v.d.Waerden	4.40	5.45	4.95	5.80	5.40	6.30	6.85	6.25	7.80	7.30
ATS	4.35	5.60	5.50	6.30	5.45	7.10	7.50	7.05	8.95	7.60

6.7.4 Factor B - unequal n_j

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.45	5.00	4.90	4.90	5.65	5.10	4.80	4.90	5.55	5.30
RT	4.15	4.75	4.05	4.95	5.45	5.40	4.40	4.70	5.55	5.00
INT	4.15	5.00	4.75	4.90	5.60	5.20	4.85	4.65	5.40	5.35
ART	2.90	3.00	2.15	3.20	2.65	2.35	2.00	2.45	2.40	2.20
ART+INT	2.40	2.90	2.30	2.45	2.75	2.80	2.05	2.10	2.35	2.10
Puri & Sen	4.25	4.75	4.05	4.85	5.45	5.45	4.40	4.75	5.55	4.90
v.d.Waerden	3.85	4.75	4.55	4.90	5.60	5.10	4.80	4.55	5.40	5.40
ATS	3.85	4.55	3.70	4.55	5.25	4.75	4.60	4.90	5.50	5.00

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.10	5.55	5.60	5.20	5.95	4.85	5.60	5.50	5.45	5.20
RT	5.60	5.55	5.60	6.75	7.50	6.95	7.45	7.75	8.55	7.40
INT	6.15	6.25	6.20	6.45	8.05	6.10	6.90	7.30	8.05	7.20
ART	3.50	3.10	3.10	4.30	3.60	4.05	4.45	4.40	5.15	4.85
ART+INT	3.20	2.85	2.70	3.80	2.85	3.35	3.65	3.90	4.10	4.05
Puri & Sen	5.35	5.40	5.45	6.60	7.40	6.80	7.45	7.75	8.55	7.40
v.d.Waerden	5.45	5.85	5.80	6.45	7.95	6.05	6.85	7.25	7.85	7.25
ATS	5.05	5.60	5.45	5.95	7.00	6.55	6.60	6.80	6.95	7.10

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.45	6.40	6.30	5.40	5.65	4.65	5.95	5.50	5.55	4.75
RT	7.20	8.40	9.75	11.70	12.95	13.95	15.55	18.90	19.50	21.30
INT	6.15	7.60	9.20	9.25	10.75	11.55	12.00	15.75	15.95	16.90
ART	3.90	4.75	5.80	8.05	7.80	9.70	11.70	13.75	16.30	16.45
ART+INT	3.35	3.80	5.00	6.10	5.70	7.75	9.00	10.35	12.50	12.75
Puri & Sen	6.55	8.00	9.60	11.45	12.55	13.65	15.45	18.80	19.50	21.20
v.d.Waerden	5.80	7.40	8.80	9.25	10.75	11.35	11.90	15.70	15.70	16.90
ATS	5.20	6.40	8.30	9.60	11.65	11.90	13.90	16.30	16.85	17.70

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.25	6.80	6.30	7.10	6.40	6.25	5.75	7.15	6.65	6.50
RT	5.70	6.25	5.90	6.55	5.70	6.55	6.20	8.40	7.35	7.10
INT	6.10	6.50	6.30	7.75	6.95	7.00	7.30	8.20	8.00	8.30
ART	2.90	4.10	4.20	3.45	3.55	3.55	2.95	4.40	4.05	3.80
ART+INT	2.45	3.40	3.60	3.40	3.35	3.55	2.40	4.00	3.55	4.00
Puri & Sen	5.45	5.85	5.80	6.45	5.55	6.30	6.20	8.10	7.15	7.05
v.d.Waerden	5.40	5.85	6.00	7.55	6.90	6.95	7.20	8.15	8.10	8.20
ATS	4.05	5.25	4.85	6.05	5.80	5.40	5.50	6.45	6.15	5.70

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.50	8.50	8.60	7.65	8.10	8.85	8.45	8.20	7.60	8.85
RT	5.20	6.60	5.85	6.45	7.20	7.60	7.80	7.70	7.35	8.85
INT	5.95	7.70	7.15	7.70	7.80	8.40	8.60	9.10	8.80	10.15
ART	2.85	4.30	3.85	4.10	4.15	5.30	4.10	5.30	4.80	5.20
ART+INT	2.55	3.35	3.20	3.50	3.60	4.15	3.55	4.20	4.45	4.70
Puri & Sen	5.00	6.20	5.50	6.40	7.00	7.60	7.70	7.55	7.25	8.70
v.d.Waerden	5.20	7.25	7.05	7.35	7.70	8.25	8.55	9.00	8.70	10.15
ATS	4.15	5.10	5.25	4.95	5.40	6.60	6.30	5.90	5.80	7.15

6.7.5 Interaction A*B - equal n_i

All variances homogeneous

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	4.55	4.30	5.00	5.35	5.40	5.00	5.50	4.50	5.15	4.70
RT	4.95	4.60	4.85	5.40	5.50	5.05	5.90	4.55	5.80	4.95
INT	4.70	4.65	4.95	5.35	5.20	5.20	5.65	4.95	5.45	4.85
ART	5.05	4.75	5.40	5.15	5.60	4.95	6.00	4.60	5.95	4.65
ART+INT	4.55	4.55	4.85	5.45	5.20	5.05	5.75	4.90	5.60	4.90
Puri & Sen	4.80	4.40	4.60	5.20	5.45	4.80	5.80	4.55	5.65	4.75
v.d.Waerden	4.30	4.10	4.85	5.35	5.15	4.95	5.55	5.00	5.35	4.85
ATS	4.55	4.40	4.70	5.20	5.50	5.05	5.80	4.55	5.80	4.85

Variances heterogeneous for factor B (ratio 2)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	5.70	5.40	5.45	5.35	4.25	4.55	5.50	5.05	4.55	4.55
RT	5.85	5.10	5.35	5.25	4.50	4.10	5.10	4.95	5.60	5.05
INT	6.10	5.05	5.50	4.85	4.45	4.25	4.95	4.85	5.05	5.10
ART	5.75	5.55	5.40	5.45	4.90	4.25	5.20	5.35	5.75	5.05
ART+INT	5.80	5.50	5.20	5.00	4.85	4.25	4.95	4.70	5.20	4.90
Puri & Sen	5.25	4.90	5.10	5.25	4.40	4.10	5.10	4.80	5.50	4.95
v.d.Waerden	5.40	4.85	5.20	4.85	4.25	4.05	4.85	4.80	5.05	5.00
ATS	5.00	4.80	5.30	5.20	4.40	4.05	5.10	4.90	5.55	4.95

Variances heterogeneous for factor B (ratio 4)

	cell count									
method	5	10	15	20	25	30	35	40	45	50
parametric	6.55	5.45	5.80	5.25	5.45	5.25	5.90	4.75	5.15	5.40
RT	5.95	5.40	5.50	4.85	5.05	4.80	5.85	5.00	5.20	5.40
INT	6.65	5.35	5.90	4.75	5.45	5.10	5.90	5.25	5.20	5.30
ART	6.95	6.30	6.30	5.65	5.70	5.70	6.40	5.70	5.95	5.35
ART+INT	6.90	5.80	6.20	5.20	5.75	5.20	5.85	5.00	5.35	5.15
Puri & Sen	5.40	5.00	5.15	4.65	4.95	4.80	5.80	4.75	5.20	5.30
v.d.Waerden	6.10	4.95	5.45	4.65	5.35	4.95	5.70	5.15	5.15	5.30
ATS	5.20	5.00	5.40	4.80	4.95	4.75	5.75	4.95	5.20	5.25

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.65	4.75	4.90	5.10	5.25	5.05	4.25	4.75	4.20	3.80
RT	5.90	4.35	5.85	5.25	4.80	5.25	4.80	5.05	5.30	4.00
INT	5.50	4.30	5.40	5.40	5.40	5.00	4.75	4.90	4.55	4.00
ART	6.10	5.15	6.15	5.60	5.30	5.80	5.30	5.40	5.75	4.50
ART+INT	6.00	4.75	5.25	5.35	5.55	4.95	4.90	5.00	4.50	4.05
Puri & Sen	4.85	4.20	5.45	5.05	4.60	5.10	4.60	4.95	5.25	3.95
v.d.Waerden	4.90	3.95	5.25	5.30	5.35	4.95	4.55	4.75	4.50	3.90
ATS	4.65	4.20	5.60	5.15	4.65	5.15	4.70	5.05	5.25	3.95

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	4.80	5.20	4.90	6.25	5.45	5.20	5.25	5.55	5.60	5.25
RT	5.05	5.50	5.50	5.70	6.50	5.95	6.65	6.80	6.55	6.50
INT	5.20	5.60	5.20	5.75	6.15	5.90	6.65	6.50	6.65	6.70
ART	5.95	6.80	6.60	6.55	7.60	7.35	7.75	7.70	7.75	7.65
ART+INT	5.55	5.95	5.50	6.25	6.60	6.00	6.40	7.00	6.95	7.00
Puri & Sen	4.40	5.05	4.95	5.35	6.45	5.85	6.60	6.75	6.45	6.45
v.d.Waerden	4.40	5.05	5.20	5.65	5.90	5.60	6.30	6.35	6.55	6.50
ATS	4.30	5.40	4.95	5.60	6.45	5.90	6.60	6.70	6.50	6.50

6.7.6 Interaction A*B - unequal n_i

All variances homogeneous

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	5.60	4.75	5.30	4.55	5.50	5.55	4.70	4.90	4.90	4.65
RT	4.90	4.60	4.20	4.30	4.85	5.30	4.40	4.70	4.50	5.00
INT	4.90	4.60	4.75	4.70	5.15	5.65	4.45	4.75	4.60	4.80
ART	5.10	4.65	4.10	4.35	5.00	5.40	4.55	4.55	4.65	4.85
ART+INT	4.85	4.75	5.00	4.50	5.15	5.80	4.40	4.95	4.70	4.60
Puri & Sen	3.80	4.15	3.95	4.10	4.75	5.20	4.35	4.60	4.40	4.85
v.d.Waerden	3.85	4.15	4.45	4.45	4.75	5.50	4.25	4.75	4.60	4.65
ATS	4.30	4.70	4.70	4.80	5.05	5.20	4.40	4.55	5.10	4.15

Variances heterogeneous for factor B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.25	5.75	6.25	5.50	6.05	6.30	6.45	6.20	5.85	5.55
RT	5.00	5.30	5.85	4.50	5.90	5.40	6.05	5.75	5.70	5.65
INT	5.70	5.50	6.15	5.45	6.30	5.85	6.25	5.55	5.90	5.40
ART	5.50	5.55	6.10	5.00	6.30	5.30	6.25	6.00	6.35	5.90
ART+INT	5.95	5.70	5.95	5.40	6.15	5.85	6.05	5.65	5.90	5.60
Puri & Sen	3.60	4.70	5.60	4.30	5.65	5.30	5.75	5.60	5.55	5.65
v.d.Waerden	4.20	5.00	5.65	5.00	5.95	5.60	6.00	5.35	5.80	5.15
ATS	4.70	4.20	5.85	4.75	6.55	5.60	5.40	5.25	5.90	5.10

Variances heterogeneous for factor B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	6.30	5.65	5.30	5.25	6.20	6.30	6.00	6.05	5.65	4.95
RT	4.95	4.70	5.70	4.85	5.55	5.30	5.65	5.65	5.40	5.50
INT	5.90	5.20	5.35	5.15	5.50	5.65	5.65	5.85	5.50	5.45
ART	6.45	5.75	6.95	5.85	6.95	6.15	6.60	6.95	6.90	6.35
ART+INT	6.55	5.50	5.65	5.65	5.75	5.65	5.70	6.05	5.80	5.80
Puri & Sen	3.40	4.10	5.40	4.50	5.05	5.00	5.30	5.40	5.10	5.30
v.d.Waerden	4.10	4.65	5.00	4.90	5.05	5.45	5.45	5.75	5.15	5.25
ATS	3.95	4.45	5.90	4.90	5.70	5.25	5.20	5.75	5.70	4.95

Variations heterogeneous for factor A and B (ratio 2)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	7.50	6.65	8.70	7.70	6.95	7.50	7.10	6.70	7.55	7.70
RT	5.60	5.05	6.30	5.85	5.65	6.90	6.10	5.95	6.85	6.70
INT	6.35	6.10	7.95	7.45	6.80	7.20	6.70	7.20	7.80	7.35
ART	6.00	5.50	6.80	6.70	6.45	7.70	6.75	6.50	7.35	7.20
ART+INT	7.00	6.20	8.05	7.60	7.00	7.55	6.60	7.10	7.90	7.85
Puri & Sen	3.65	4.40	5.50	5.60	5.45	6.85	5.70	5.65	6.70	6.60
v.d.Waerden	4.80	5.50	7.50	6.95	6.40	7.10	6.55	6.90	7.55	7.25
ATS	3.90	4.05	4.60	4.90	4.35	5.30	4.65	4.55	5.75	4.85

Variations heterogeneous for factor A and B (ratio 4)

method	cell count									
	5	10	15	20	25	30	35	40	45	50
parametric	9.95	9.55	8.95	9.40	8.60	10.05	9.35	9.00	10.05	9.60
RT	6.50	6.40	6.20	6.35	6.00	7.75	7.45	7.15	7.55	7.80
INT	8.05	7.75	7.75	8.10	8.25	9.50	10.40	8.65	9.50	9.95
ART	7.50	7.95	7.20	7.30	7.35	9.35	8.65	8.40	8.80	9.00
ART+INT	8.40	8.30	8.25	8.40	8.40	9.95	11.25	9.40	9.90	10.80
Puri & Sen	5.30	5.95	5.65	6.20	5.65	7.35	7.25	7.05	7.35	7.70
v.d.Waerden	6.25	7.15	7.05	7.35	7.75	9.25	9.95	8.40	9.40	9.85
ATS	3.95	5.20	4.80	5.55	5.10	6.10	5.80	5.65	6.50	5.90