

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols and abbreviated terms .....	5
5	Basic concepts .....	6
5.1	Outline .....	6
5.2	Measurement uncertainty .....	9
5.3	Correction for systematic effects .....	10
5.4	Provision of input data .....	11
6	Problem specification .....	13
6.1	Objectives .....	13
6.2	Measurement .....	13
6.3	Uncertainty parameters .....	15
6.4	Input data .....	15
6.4.1	General .....	15
6.4.2	Assessment of representativeness .....	16
6.5	Effects not described by series of observations .....	17
7	Statistical analysis .....	18
7.1	Objectives .....	18
7.2	Indirect approach .....	19
7.3	Direct approach .....	21
7.4	Statistical validity .....	22
8	Estimation of variances and covariances .....	23
8.1	General .....	23
8.2	Variance estimates of Type A .....	23
8.3	Variance estimates of Type B .....	23
8.4	Estimation of covariances .....	24
9	Evaluation of uncertainty parameters .....	25
9.1	Objective .....	25
9.2	Combined standard uncertainty .....	25
9.3	Expanded uncertainty .....	26
9.3.1	General .....	26
9.3.2	Expanded uncertainty of results exhibiting a Gaussian distribution .....	27
10	Reporting .....	28
Annex A (informative) Testing a coverage probability .....		30
Annex B (informative) Type A evaluation methods for experimental designs A1 to A8 .....		34
Annex C (informative) Examples .....		49
Bibliography .....		81