

ISO/TR 29901:2007-11 (E)

Selected illustrations of full factorial experiments with four factors

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		2
4 Symbols and abbreviated terms		4
5 Generic description of full factorial designs		4
5.1 Overview of the structure of the four factor examples in Annexes A through E		4
5.2 Overall objective(s) of the experiment		4
5.3 Response variable(s)		5
5.4 Factors affecting the response(s)		5
5.5 "Full" factorial design		5
5.6 Analyse the results -- Numerical summaries and graphical displays		6
5.7 Present the results		7
5.8 Perform confirmation runs		7
6 Description of Annexes A through E		7
6.1 Comparing and contrasting the examples		7
6.2 Experiment summaries		7
Annex A (informative) Solder bar experiment		8
Annex B (informative) Direct mail marketing campaign		17
Annex C (informative) Button tactility experiment		25
Annex D (informative) Optimizing a customer PVC formulation		34
Annex E (informative) Genetic algorithms for DNA sequencing experiment		44
Bibliography		52