Record Nr. UNINA9910812798003321 Autore Krauth Joachim <1941-> Titolo Experimental design: a handbook and dictionary for medical and behavioral research / / by J. Krauth New York, : Elsevier, 2000 Pubbl/distr/stampa **ISBN** 0-08-057428-9 1-281-04845-3 0-08-053143-1 9786611048457 1-4356-0813-5 Edizione [1st ed.] Descrizione fisica 1 online resource (297 p.) Techniques in the behavioral and neural sciences, , 0921-0709;; v. 14 Collana Disciplina 610.7/27 Soggetti Medicine - Research - Statistical methods Psychology - Research - Statistical methods Experimental design Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto Front Cover; Experimental Design: A Handbook and Dictionary for Medical and Behavioral Research; Copyright Page; Contents; Preface; Part A: Handbook of Experimental Design; Chapter 1. Historical Remarks; 1.1 The Diet Experiment of the Prophet Daniel; 1.2 The Lemon Experiment of an Egyptian Judge; 1.3 Drug Research in the 11th Century; 1.4 John Stuart Mill and the Foundations of Experimental Research: 1.5 Wilhelm Wundt and the Experiment in Psychology: 1.6 The Invention of Randomization; 1.7 Sir Ronald Fisher and Randomization; Summary; Questions; Chapter 2. The Object of **Experimental Design** 2.1 Dependent and Independent Variables 2.2 Selection of Factor Levels; 2.3 Causal Relations and Intervening Variables; 2.4 Ockham's Razor; 2.5 Constructs: 2.6 Causal and Correlative Relations: Summary: Questions; Chapter 3. A Case for Experimental Design; 3.1 Threats to Statistical Conclusion Validity: 3.2 Threats to Internal Validity: 3.3 Threats to Construct Validity; 3.4 Threats to External Validity;

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Sommario/riassunto

Scientists planning experiments in medical and behavioral research will find this handbook and dictionary an invaluable desk reference tool. Also recommended as a textbook for students of Experimental Design or accompanying courses in Statistics. Principles of experimental design are introduced, techniques of experimental design are described, and advantages and disadvantages of often used designs are discussed. This two-part volume, a handbook of experimental design and a dictionary providing short explanations for many terms related to experimental design, contains information that wil