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Nota di contenuto	Design and Analysis of Experiments in the Health Sciences; Contents; Preface; 1 The Basics; 1.1 Four Basic Questions; 1.2 Variation; 1.3 Principles of Design and Analysis; 1.4 Experiments and Observational Studies; 1.5 Illustrative Applications of Principles; 1.6 Experiments in the Health Sciences; 1.7 Adaptive Allocation; 1.7.1 Equidistribution; 1.7.2 Adaptive Allocation Techniques; 1.8 Sample Size Calculations; 1.9 Statistical Models for the Data; 1.10 Analysis and Presentation; 1.10.1 Graph the Data in Several Ways; 1.10.2 Assess Assumptions of the Statistical Model 1.10.3 Confirmatory and Exploratory Analysis 1.10.4 Missing Data Need Careful Accounting; 1.10.5 Statistical Software; 1.11 Notes; 1.11.1 Characterization Studies; 1.11.2 Additional Comments on Balance; 1.11.3 Linear and Nonlinear Models; 1.11.4 Analysis of Variance Versus Regression Analysis; 1.12 Summary; 1.13 Problems; 2 Completely Randomized Designs; 2.1 Randomization; 2.2 Hypotheses and Sample Size; 2.3 Estimation and Analysis; 2.4 Example; 2.5 Discussion and Extensions; 2.5.1 Preparing Data for Computer Analysis; 2.5.2

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2.11.8 Design Implications of the CRD; 2.11.9 Power and Alternative
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Sommario/riassunto

An accessible and practical approach to the design and analysis of experiments in the health sciences. *Design and Analysis of Experiments in the Health Sciences* provides a balanced presentation of design and analysis issues relating to data in the health sciences and emphasizes new research areas, the crucial topic of clinical trials, and state-of-the-art applications. Advancing the idea that design drives analysis and analysis reveals the design, the book clearly explains how to apply design and analysis principles in animal, human, and laboratory experiments whil
