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| | Autore | Easterling Robert G. |
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| | Descrizione fisica | 1 online resource (530 p.) |
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| | Soggetti | Mathematical statistics - Study and teaching |
| | | Mathematical statistics |
| | | Experimental design |
| | | Electronic books. |
| | 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 index. |
| | Nota di contenuto | Cover; Table of Contents; Title Page; Preface; References; Statistical Software; Sources for Student Exercises (in addition to the above references); Acknowledgments; Credits; 1 Introduction; Motivation: Why Experiment?; Steps in an Experimental Program; Subject-Matter Passion; Case Study; Overview of Text; Assignment; References; 2 Fundamentals of Experimental Design; Introduction; Experimental Structure; Principles of Experimental Design; Assignment; References; 3 Fundamentals of Statistical Data Analysis; Introduction; Boys' Shoes Experiment; Tomato Fertilizer Experiment |
| | | A New Tomato ExperimentComparing Standard Deviations; Discussion; Appendix 3.A The Binomial Distribution; Appendix 3.B Sampling from a Normal Distribution; Appendix 3.C Statistical Underpinnings; Assignment; References; 4 Completely Randomized Design; Introduction; Design Issues; CRD: Single Qualitative Factor; Analysis of Variance; Testing the Assumptions of Equal Variances and Normality; Confidence Intervals; Inference; Statistical Prediction Interval; Example: Tomato Fertilizer Experiment Revisited; Sizing a Completely Randomized Experiment; CRD: Single Quantitative Factor; Design Issues Enhanced Case Study: Power Window Gear TeethAssignment; |

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| Sommario/riassunto | Professionals in all areas - business; government; the physical, life, and social sciences; engineering; medicine, etc. - benefit from using statistical experimental design to better understand their worlds and then use that understanding to improve the products, processes, and programs they are responsible for. This book aims to provide the practitioners of tomorrow with a memorable, easy to read, engaging guide to statistics and experimental design.  This book uses examples, drawn from a variety of established texts, and embeds them in a business or scientific context, seasoned with a dash |