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- Do your students need to organize and summarize data for term projects? Will they need to perform these tasks

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on the job? This book gives them thorough preparation. • In twelve short chapters, your students will learn the purposes of descriptive statistics, their calculation, and proper interpretation. • Actual

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data on the emotional health of foster-care adolescents are used throughout the book to illustrate various ways of deriving meaning from the data with descriptive statistics. Other interesting examples are

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biostatistics applications in the field of public health. Many examples are drawn directly from the author s remarkable clinical experiences with the renowned Framingham Heart Study, making this text

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methods, techniques, and computations necessary for success in the medical field. Every new concept is developed systematically through completely worked out examples from current medical research problems. The book provides basic and clear

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They are gaining Importance not only in medical science but also in dental, nursing, pharmacy, physiotherapy, etc. The book will clear the doubts of students and

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also give an opportunity to understand fundamentals of the subjects with historical background and simple explanations of various study designs and biostatistical inferences.

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the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color

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graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on

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textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a

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suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have

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cardiology, ophthalmology, cancer and AIDS. While the specifics of using the randomized control design for a specific intervention and disease may differ, the basic fundamentals still apply in developing the study protocol and operational procedures. These fundamentals still apply in developing the

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study protocol and operational procedures. These fundamentals include identifying the specific questions to be tested and appropriate outcome measures, determining an adequate sample size, specifying the randomization procedure, detailing the intervention with visit schedules for subject evaluation,

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establishing an interim data and safety monitoring plan, detailing the final analysis plan and determining the organizational structure. This text is structured to address the fundamentals as the protocol for a clinical trial is being developed. A chapter is devoted to each of the critical areas of a protocol to aid the

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clinical trial researcher. The fundamentals described in this text are based on sound scientific methodology, statistical principles and years of accumulated experience by the three authors.

Collectively, the authors have been active researchers in a broad area of clinical trials including cardiology, cancer,

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ophthalmology, diabetes, osteoporosis, AIDS, women's health and screening tests. In these studies, the authors have served as members of the steering committee responsible for developing the protocol and as members of data and safety monitoring committees. The fundamentals were proposed in the first edition

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published in 1981 and have not changed substantially in the later editions.

However, the number of examples illustrating the fundamentals has greatly expanded base on the collective experience of the authors. This text is intended for the clinical researcher who is interested in designing a clinical trial and

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disciples to meaningfully illustrate the fundamentals. Technical design issues such as sample size are considered but the technical details have been suppressed as much as possible through the use of graphs and tables. While the technical material has been kept to a minimum, the statistician may still find the principles and

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fundamentals presented in this text useful both in a consulting and teaching capacity. The text assumes that the readers have only a modest formal statistical background. A basic introductory statistics course is helpful in maximizing the benefit of the text. However, a researcher or practitioner with no statistical background

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for self-learning of biostatistics techniques with a deeper level of understanding. The first two chapters focus on fundamental concepts, sources of data, data types, organization of data, and

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