

This text will be very useful . . . The chapters are well written, the sample problems and programs illustrate the concepts being taught, and, more important, how to use them . . . (it) will be found useful by instructors, students, and those engaged in biomedical research. . . a valuable resource.

—John Abenstein, *IEEE Engineering in Biology and Medicine Magazine*

BASIC Microcomputing and Biostatistics

*How to Program and Use Your Microcomputer for Data Analysis
in the Physical and Life Sciences, Including Medicine*

*With a Permanent Library of Many Helpful Programs, Challenging Problems, and Worked
Exercises*

By DONALD W. ROGERS

Rogers' breakthrough BASIC Microcomputing and Biostatistics is the first no-nonsense step-by-step text designed to teach you the essential programming skills and statistical data processing techniques needed by either a novice or experienced professional—particularly in the physical and life sciences, including medicine—to work productively with today's powerful microcomputers.

Beginning with a brief primer on the computer and how to program in BASIC, this outstandingly practical book concurrently develops not only your ready ability to program, but also your real facility in carrying out a complete range of statistical operations, all the way from the simplest of introductory programs up to computer graphics, integration, nonlinear curve-fitting, and multiple regression.

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BASIC Microcomputing and Biostatistics includes such features as:

- Computer primer
- Introduction to BASIC
- Experimental errors and averages
- Data dispersion
- Finding probability distributions
- Extensive glossaries
- Creating computer graphics
- Chi square and student's t-tests
- Linear and nonlinear curve fitting
- Solving simultaneous equations

Plus a highly useful personal library of more than:

- 33 working programs
- 25 pertinent tables
- 114 graded self-study problems (most with answers)
- 60 helpful figures
- 70 fully worked exercises

BASIC Microcomputing and Biostatistics teaches you virtually everything you need to know about programming your microcomputer to analyze experimental, clinical, or any other kind of data statistically. Whether you are a physical, biological, or medical scientist, or work in some other field where data must be analyzed, the book's down-to-earth self-teaching format ensures that you will maximize your ability to make effective use of the power afforded by today's personal microcomputers.

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