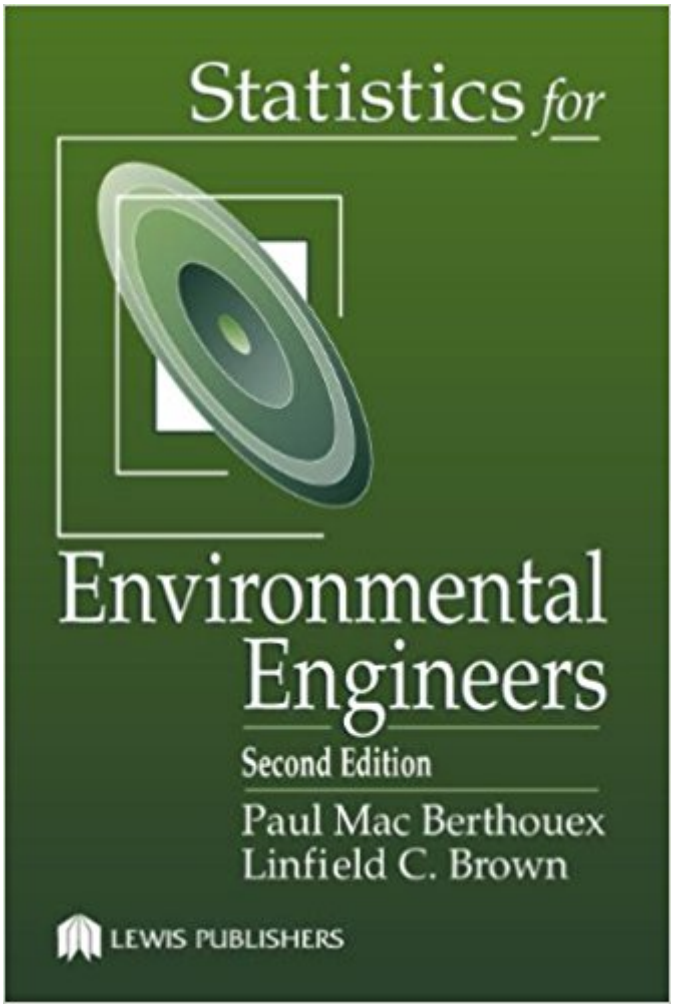
Statistics For Environmental Engineers, Second Edition



Synopsis

Two critical questions arise when one is confronted with a new problem that involves the collection and analysis of data. How will the use of statistics help solve this problem? Which techniques should be used? Statistics for Environmental Engineers, Second Edition helps environmental science and engineering students answer these questions when the goal is to understand and design systems for environmental protection. The second edition of this bestseller is a solutions-oriented text that encourages students to view statistics as a problem-solving tool. Written in an easy-to-understand style, Statistics for Environmental Engineers, Second Edition consists of 54 short, "stand-alone" chapters. All chapters address a particular environmental problem or statistical technique and are written in a manner that permits each chapter to be studied independently and in any order. Chapters are organized around specific case studies, beginning with brief discussions of the appropriate methodologies, followed by analysis of the case study examples, and ending with comments on the strengths and weaknesses of the approaches. New to this edition:Thirteen new chapters dealing with topics such as experimental design, sizing experiments, tolerance and prediction intervals, time-series modeling and forecasting, transfer function models, weighted least squares, laboratory quality assurance, and specialized control chartsExercises for classroom use or self-study in each chapterImproved graphicsRevisions to all chaptersWhether the topic is displaying data, t-tests, mechanistic model building, nonlinear least squares, confidence intervals, regression, or experimental design, the context is always familiar to environmental scientists and engineers. Case studies are drawn from censored data, detection limits, regulatory standards, treatment plant performance, sampling and measurement errors, hazardous waste, and much more. This revision of a classic text serves as an ideal textbook for students and a valuable reference for any environmental professional working with numbers.

Book Information

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Customer Reviews

The book is well written, easy to read, and interesting, which is no small feat considering the subject matter. The authors have taken considerable steps to make this textbook user-friendly to their intended audience, environmental engineers. … The authors, both recognized experts in civil and sanitary engineering, provide data and problems in each chapter that use relevant and realistic examples to teach the concepts of each chapter. … [U]seful and well written … [the book] contains exercises based on the types of real-world problems that environmental engineers face on a daily basis. - Environmental Practice, Vol. 6, No. 4, Dec. 2004

Awesome, comprehensive and full of detail.I believe it is more than enough for every Environmental Engineering purpose.It includes thorough examples and actual case studies which makes for an all-round great education.

As the title aptly suggest, the book is written keeping environmental engineering majors (and grad students)in mind. The authors have surely done a commendable job. All the examples are based on real life situation problems confronting environmental engineers. More importantly, not dwelling too much on the basics, the book has covered almost all the topics an environmental engineer would be interested in. Another big plus in the second edition is the addition of the problem sets at the end of every chapters. This was the one feature the original edition badly lacked and the authors have immediately corrected the flaw. The pricing of the book too is excellent and this is one book that has to feature on the study-desk of all environmental engineering students.

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