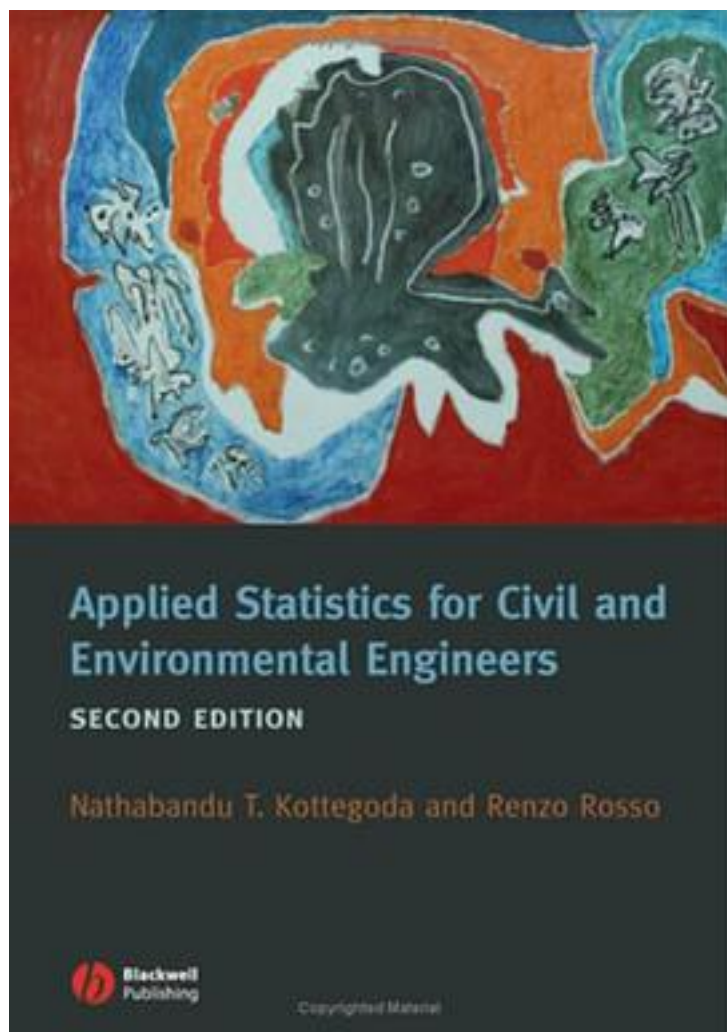


# Applied Statistics for Civil and Environmental Engineers



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著者:Kottegoda, Nathabandu T./ Rosso, Renzo

出版者:

出版时间:2008-8

装帧:

isbn:9781405179171

Civil and environmental engineers need an understanding of mathematical statistics and probability theory to deal with the variability that affects engineers' structures, soil pressures, river flows and the like. Students, too, need to get to grips with these rather difficult concepts.

This book, written by engineers for engineers, tackles the subject in a clear, up-to-date manner using a process-orientated approach. It introduces the subjects of mathematical statistics and probability theory, and then addresses model estimation and testing, regression and multivariate methods, analysis of extreme events, simulation techniques, risk and reliability, and economic decision making.

325 examples and case studies from European and American practice are included and each chapter features realistic problems to be solved.

For the second edition new sections have been added on Monte Carlo Markov chain modeling with details of practical Gibbs sampling, sensitivity analysis and aleatory and epistemic uncertainties, and copulas. Throughout, the text has been revised and modernized.

作者介绍:

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