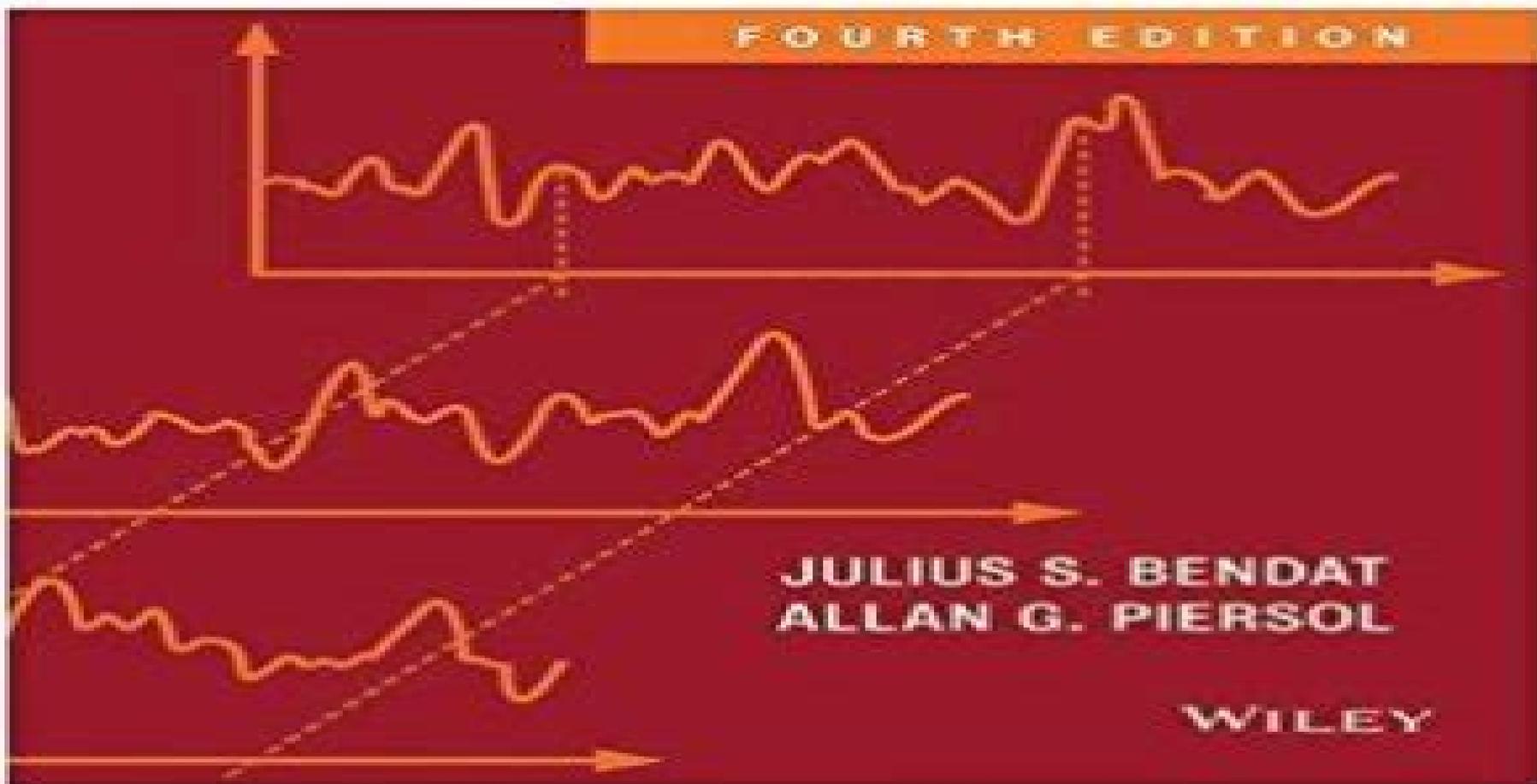


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for scientists and engineers who investigate dynamic data as well as those who use statistical methods to solve engineering problems It is fully updated covering new procedures developed since 1986 and extending the discussion to a remarkably broad range of applied fields from aerospace and automotive industries to biomedical research Comprehensive and self contained this new edition also greatly expands coverage of the theory including derivations of key relationships in probability and random process theory not usually found in books of this kind Special features of Random Data Analysis and Measurement Procedures Third Edition include Basic probability functions for level crossings and peak values of random data Complete derivations of both old and new practical formulas for statistical error analysis of computed estimates The latest methods for data acquisition and processing as well as nonstationary data analysis Additional techniques on digital data analysis procedures New material on the analysis of multiple input multiple output linear systems Numerous new examples and problem sets Hundreds of updated illustrations and references An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

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[Advances in Nuclear Science and Technology](#) Jeffery Lewins,Martin Becker,2006-04-18 The present review volume not only covers a wide range of topics pertinent to nuclear science and technology but has attracted a distinguished international authorship for which the editors are grateful The opening review by Drs Janet Tawn and Richard Wakeford addresses the difficult matter of questioning scientific hypotheses in a court of law The United Kingdom experienced a substantial nuclear accident in the 1950s in the form of the Windscale Pile fire This in itself had both good and bad consequences the setting up of a licensing authority to ensure nuclear safety was one the understandable public sentiment concerning nuclear power despite the fire occurring in a weapons pile the other Windscale today is subsumed in the reprocessing plant at Sellafield operated by British Nuclear Fuels plc and it was inevitable perhaps that when an excess cluster of childhood leukaemia was observed in the nearby village of Seascale that public concern should be promoted by the media leading to the hearing of a claim of compensation brought on behalf of two of the families of BNFLs workers who had suffered that loss The review article demonstrates the complexity of understanding such a claim against the statistical fluctuations inherent and shows how the courts were persuaded of the need

to propose a biological mechanism if responsibility were to be held The Company were undoubtedly relieved by the finding

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