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Precision Measurement and Calibration: Statistical concepts and procedures, H. H. Ku, ed United States. National Bureau of Standards, 1961 International Conference on Statistics and Analytical Methods in Automotive Engineering IMechE (Institution of Mechanical Engineers), 2002-11-22 These IMechE conference transactions examine how major improvements have been made in product delivery processes by the effective use of both statistical and analytical methods as well as examining the problems that can occur as a result of under utilization of information This volume will be of great interest to managers engineers and statisticians at all levels engaged in project management or the design and development of motor vehicles their subsystems and components **CONTENTS INCLUDE** Applications of advanced modelling methods in engine development Application of adaptive online DoE techniques for engine ECU calibration Radial basis functions for engine modelling Designing for Six Sigma reliability Dimensional variation analysis for automotive hybrid aluminium body structures Reliability based multidisciplinary design optimization of vehicle structures **Computational Methods and Experimental Measurements XX** S. Hernández ,G. M. Carlomagno, 2021-07-26 Formed of papers presented at the 20th International Conference on Computational Methods and Experimental Measurements this volume provides a view of the latest work on the interaction between computational methods and experiments The continuous improvement in computer efficiency coupled with diminishing costs and the rapid development of numerical procedures have generated an ever increasing expansion of computational simulations that permeate all fields of science and technology As these procedures continue to grow in magnitude and complexity it is essential to validate their results to be certain of their reliability This can be achieved by performing dedicated and accurate experiments which have undergone constant and enormous development At the same time current experimental techniques have become more complex and sophisticated so that they require the intensive use of computers both for running experiments as well as acquiring and processing the resulting data Some of the subject areas covered are Fluid flow studies and experiments Structural and stress analysis Materials characterization Electromagnetic problems Structural integrity Destructive and non destructive testing Heat transfer and thermal processes Advances in computational methods Automotive applications Aerospace applications Ocean engineering and marine structures Fluid structure interaction Bio electromagnetics Process simulations Environmental

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The EM Algorithm and Extensions Geoffrey J. McLachlan,Thriyambakam Krishnan,2008-03-14 The only single source now completely updated and revised to offer a unified treatment of the theory methodology and applications of the EM algorithm Complete with updates that capture developments from the past decade The EM Algorithm and Extensions Second Edition successfully provides a basic understanding of the EM algorithm by describing its inception implementation and applicability in numerous statistical contexts In conjunction with the fundamentals of the topic the authors discuss convergence issues and computation of standard errors and in addition unveil many parallels and connections between the EM algorithm and Markov chain Monte Carlo algorithms Thorough discussions on the complexities and drawbacks that arise from the basic EM algorithm such as slow convergence and lack of an in built procedure to compute the covariance matrix of parameter estimates are also presented While the general philosophy of the First Edition has been maintained this timely new edition has been updated revised and expanded to include New chapters on Monte Carlo versions of the EM algorithm and generalizations of the EM algorithm New results on convergence including convergence of the EM algorithm in constrained parameter spaces Expanded discussion of standard error computation methods such as methods for categorical data and

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