



Model Oriented Design Of Experiments

Valerii V Fedorov, Peter Hackl



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Model-Oriented Design of Experiments Valerii V. Fedorov, Peter Hackl, 2024-12-26 This book presents the basic ideas of statistical methods in the design of optimal experiments This new edition now includes sections on design techniques based on the elemental Fisher information matrices as opposed to Pearson information moment matrices allowing a seamless extension of the design techniques to inferential problems where the shape of distributions is essential for optimal design construction Topics include designs for nonlinear models models with random parameters and models with correlated observations designs for model discrimination and misspecified contaminated models and designs in functional spaces The authors avoid technical details assuming a moderate background in calculus matrix algebra and statistics In many places however suggestions are made as to how the ideas presented in this book can be extended and elaborated for use in real scientific research and practical engineering problems

Model-Oriented Design of Experiments Valerii V. Fedorov, Peter Hackl, 1997-06-20 Here the authors explain the basic ideas so as to generate interest in modern problems of experimental design The topics discussed include designs for inference based on nonlinear models designs for models with random parameters and stochastic processes designs for model discrimination and incorrectly specified contaminated models as well as examples of designs in functional spaces Since the authors avoid technical details the book assumes only a moderate background in calculus matrix algebra and statistics However at many places hints are given as to how readers may enhance and adopt the basic ideas for advanced problems or applications This allows the book to be used for courses at different levels as well as serving as a useful reference for graduate students and researchers in statistics and engineering

mODa 10 - Advances in Model-Oriented Design and Analysis Dariusz Ucinski, Anthony C. Atkinson, Maciej Patan, 2013-03-21 This book collects the proceedings of the 10th Workshop on Model Oriented Design and Analysis mODa A model oriented view on the design of experiments which is the unifying theme of all mODa meetings assumes some knowledge of the form of the data generating process and naturally leads to the so called optimum experimental design Its theory and practice have since become important in many scientific and technological fields ranging from optimal designs for dynamic models in pharmacological research to designs for industrial experimentation to designs for simulation experiments in environmental risk management to name but a few The methodology has become even more important in recent years because of the increased speed of scientific developments the complexity of the systems currently under investigation and the mounting pressure on businesses industries and scientific researchers to reduce product and process development times This increased competition requires ever increasing efficiency in experimentation thus necessitating new statistical designs This book presents a rich collection of carefully selected contributions ranging from statistical methodology to emerging applications It primarily aims to provide an overview of recent advances and challenges in the field especially in the context of new formulations methods and state of the art algorithms The topics included in this volume will be of interest to all

scientists and engineers and statisticians who conduct experiments MODA 6 - Advances in Model-Oriented Design and Analysis Anthony C. Atkinson, Peter Hackl, Werner G. Müller, 2012-12-06 This book includes many of the papers presented at the 6th International workshop on Model Oriented Data Analysis held in June 2001 This series began in March 1987 with a meeting on the Wartburg near Eisenach at that time in the GDR The next four meetings were in 1990 St Kyrik monastery Bulgaria 1992 Petrodvoretz St Petersburg Russia 1995 Spetses Greece and 1998 Marseilles France Initially the main purpose of these workshops was to bring together leading scientists from Eastern and Western Europe for the exchange of ideas in theoretical and applied statistics with special emphasis on experimental design Now that the separation between East and West is much less rigid this exchange has in principle become much easier However it is still important to provide opportunities for this interaction MODA meetings are celebrated for their friendly atmosphere Indeed discussions between young and senior scientists at these meetings have resulted in several fruitful long term collaborations This intellectually stimulating atmosphere is achieved by limiting the number of participants to around eighty by the choice of a location in which communal living is encouraged and of course through the careful scientific direction provided by the Programme Committee It is a tradition of these meetings to provide low cost accommodation low fees and financial support for the travel of young and Eastern participants This is only possible through the help of sponsors and outside financial support was again important for the success of the meeting **Model-Oriented Design of Experiments** Valerii V Fedorov, Peter Hackl, 1997-06-01 **mODa 9 - Advances in Model-Oriented Design and Analysis** Alessandra Giovagnoli, Anthony C. Atkinson, Bernard Torsney, Caterina May, 2010-06-10 Statisticians and experimentalists will find the latest trends in optimal experimental design research Some papers are pioneering contributions leading to new open research problems It is a collection of peer reviewed papers mODa 11 - Advances in Model-Oriented Design and Analysis Joachim Kunert, Christine H. Müller, Anthony C. Atkinson, 2016-06-06 This volume contains pioneering contributions to both the theory and practice of optimal experimental design Topics include the optimality of designs in linear and nonlinear models as well as designs for correlated observations and for sequential experimentation There is an emphasis on applications to medicine in particular to the design of clinical trials Scientists from Europe the US Asia Australia and Africa contributed to this volume of papers from the 11th Workshop on Model Oriented Design and Analysis mODa 8 - Advances in Model-Oriented Design and Analysis Jesus Lopez-Fidalgo, Juan Manuel Rodríguez-Díaz, Bernard Torsney, 2007-05-14 This volume contains the proceedings of the 8th Workshop on Model Oriented Design and Analysis It offers leading and pioneering work on optimal experimental designs both from a mathematical statistical point of view and with regard to real applications Scientists from all over the world have contributed to this volume Primary topics are designs for nonlinear models and applications to experimental medicine MODA 7 - Advances in Model-Oriented Design and Analysis Alessandro Di Bucchianico, Henning Läuter, Henry P. Wynn, 2012-12-06 The volume contains the proceedings of the 7th Workshop on Model Oriented Design and Analysis which

has had the purpose of bringing together leading researchers in Eastern and Western Europe for an in depth discussion of the optimal design of experiments The papers are representative of the latest developments concerning non linear models computational algorithms and important applications especially to medical statistics Pharmaceutical Statistics Using SAS Alex Dmitrienko,Christy Chuang-Stein,Ralph B. D'Agostino,2007 Introduces a range of data analysis problems encountered in drug development and illustrates them using case studies from actual pre clinical experiments and clinical studies Includes a discussion of methodological issues practical advice from subject matter experts and review of relevant regulatory guidelines

32nd European Symposium on Computer Aided Process Engineering Ludovic Montastruc,Stephane Negny,2022-06-30
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Includes contributions covering Bayesian design for measuring cerebral blood flow Optimal designs for biological models Computer adaptive testing Ground water modelling Epidemiological studies and pharmacological models Applied Optimal Designs bridges the gap between theory and practice drawing together a selection of incisive articles from reputed collaborators Broad in scope and inter disciplinary in appeal this book highlights the variety of opportunities available through the use of optimal design The wide range of applications presented here should appeal to statisticians working with optimal designs and to practitioners new to the theory and concepts involved

Quantitative Systems Pharmacology Davide Manca, 2018-07-18 Quantitative Systems Pharmacology Models and Model Based Systems with Applications Volume 42 provides a quantitative approach to problem solving that is targeted to engineers The book gathers the contributions of doctors pharmacists biologists and chemists who give key information on the elements needed to model a complex machine like the human body It presents information on diagnoses administration and release of therapeutics distribution metabolism and excretion of drugs compartmental pharmacokinetics physiologically based pharmacokinetics pharmacodynamics identifiability of models numerical methods for models identification design of experiments in vitro and in vivo models and more As the pharma community is progressively acknowledging that a quantitative and systematic approach to drug administration release pharmacokinetics and pharmacodynamics is highly recommended to understand the mechanisms and effects of drugs this book is a timely resource Outlines a model based approach based on Process Systems Engineering OSE and Computer Aided Process Engineering CAPE in quantitative pharmacology Explains how therapeutics work in the human body and how anatomy and physiology influences drug efficacy Discusses how drugs are driven to specific targets using nanoparticles Offers insight into how in vitro and in vivo experiments help understand the drug mechanism of action and optimize their performance Includes case studies showing the positive outcome of these methods in personalized therapies therapeutic drug monitoring clinical trials analysis and drug formulation

18th European Symposium on Computer Aided Process Engineering Bertrand Braunschweig, Xavier Joulia, 2008-06-18 Plenary Lectures Topic 1 Off Line Systems Topic 2 On Line Systems Topic 3 Computational Numerical Solutions Strategies Topic 4 Integrated And Multiscale Modelling And Simulation Topic 5 Cape For The Users Topic 6 Cape And Society Topic 7 Cape In Education

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