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Sensitivity of Functionals with Applications to Engineering Sciences

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Sensitivity Of Functionals With Applications To Engineering Sciences

Jean-Pierre Babary,Laurent Le Letty

Sensitivity Of Functionals With Applications To Engineering Sciences:

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Mathematical Reviews ,2003 **Variational Methods with Applications in Science and Engineering** Kevin W. Cassel,2013-07-22 This book reflects the strong connection between calculus of variations and the applications for which variational methods form the foundation **Nano-Engineering at Functional Interfaces for Multidisciplinary Applications** Sai Sathish Ramamurthy,Seemesh Bhaskar,Narendra Reddy,2024-10-18 Nano Engineering at Functional Interfaces for Multi disciplinary Applications Electrochemistry Photoplasmonics Antimicrobials and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of

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optical design optical metrology and manufacturing The book fills a void in the literature by coving all three topics in a single volume Optical engineering science is at the foundation of the design of commercial optical systems such as mobile phone cameras and digital cameras as well as highly sophisticated instruments for commercial and research applications It spans the design manufacture and testing of space or aerospace instrumentation to the optical sensor technology for environmental monitoring Optics engineering science has a wide variety of applications both commercial and research This important book Offers a comprehensive review of the topic of optical engineering Covers topics such as optical fibers waveguides aspheric surfaces Zernike polynomials polarisation birefringence and more Targets engineering professionals and students Filled with illustrative examples and mathematical equations Written for professional practitioners optical engineers optical designers optical systems engineers and students Optical Engineering Science offers an authoritative guide that covers the broad range of optical design and optical metrology topics and their applications   Advances in Computer Science for Engineering and Education Zhengbing Hu,Ivan Dychka,Sergey Petoukhov,Matthew He,2022-04-27 This book contains high quality refereed research papers presented at the Fifth International Conference on Computer Science Engineering and Education Applications ICCSEEA2022 which took place in Kyiv Ukraine on February 21 22 2022 and was organized by the National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute National Aviation University and the International Research Association of Modern Education and Computer Science State of the art studies in computer science artificial intelligence engineering methodologies genetic coding systems deep learning with medical applications and knowledge representation with educational applications are among the topics covered in the book For academics graduate students engineers management practitioners and undergraduate students interested in computer science and its applications in engineering and education this book is a valuable resource   Sparse Polynomial Approximation of High-Dimensional Functions Ben Adcock,Simone Brugiapaglia,Clayton G. Webster,2022-02-16 Over seventy years ago Richard Bellman coined the term the curse of dimensionality to describe phenomena and computational challenges that arise in high dimensions These challenges in tandem with the ubiquity of high dimensional functions in real world applications have led to a lengthy focused research effort on high dimensional approximation that is the development of methods for approximating functions of many variables accurately and efficiently from data This book provides an in depth treatment of one of the latest installments in this long and ongoing story sparse polynomial approximation methods These methods have emerged as useful tools for various high dimensional approximation tasks arising in a range of applications in computational science and engineering It begins with a comprehensive overview of best s term polynomial approximation theory for holomorphic high dimensional functions as well as a detailed survey of applications to parametric differential equations It then describes methods for computing sparse polynomial approximations focusing on least squares and compressed sensing techniques Sparse Polynomial Approximation of High Dimensional Functions presents the first comprehensive and unified treatment of

polynomial approximation techniques that can mitigate the curse of dimensionality in high dimensional approximation including least squares and compressed sensing It develops main concepts in a mathematically rigorous manner with full proofs given wherever possible and it contains many numerical examples each accompanied by downloadable code The authors provide an extensive bibliography of over 350 relevant references with an additional annotated bibliography available on the book s companion website www sparse hd book com This text is aimed at graduate students postdoctoral fellows and researchers in mathematics computer science and engineering who are interested in high dimensional polynomial approximation techniques

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