T. Agami Reddy Gregor P. Henze

Applied Data Analysis and Modeling for Energy Engineers and Scientists

Second Edition



Liying Dong

Applied Data Analysis and Modeling for Energy Engineers and Scientists T. Agami Reddy, 2011-08-09 Applied Data Analysis and Modeling for Energy Engineers and Scientists fills an identified gap in engineering and science education and practice for both students and practitioners It demonstrates how to apply concepts and methods learned in disparate courses such as mathematical modeling probability statistics experimental design regression model building optimization risk analysis and decision making to actual engineering processes and systems The text provides a formal structure that offers a basic broad and unified perspective while imparting the knowledge skills and confidence to work in data analysis and modeling This volume uses numerous solved examples published case studies from the author's own research and well conceived problems in order to enhance comprehension levels among readers and their understanding of the processes along with the tools Applied Data Analysis and Modeling for Energy Engineers and Scientists T. Agami Reddy, Gregor P. Henze, 2023-10-18 Now in a thoroughly revised and expanded second edition this classroom tested text demonstrates and illustrates how to apply concepts and methods learned in disparate courses such as mathematical modeling probability statistics experimental design regression optimization parameter estimation inverse modeling risk analysis decision making and sustainability assessment methods to energy processes and systems It provides a formal structure that offers a broad and integrative perspective to enhance knowledge skills and confidence to work in applied data analysis and modeling problems This new edition also reflects recent trends and advances in statistical modeling as applied to energy and building processes and systems It includes numerous examples from recently published technical papers to nurture and stimulate a more research focused mindset How the traditional stochastic data modeling methods complement data analytic algorithmic approaches such as machine learning and data mining is also discussed The important societal issue related to the sustainability of energy systems is presented and a formal structure is proposed meant to classify the various assessment methods found in the literature Applied Data Analysis and Modeling for Energy Engineers and Scientists is designed for senior level undergraduate and graduate instruction in energy engineering and mathematical modeling for continuing education professional courses and as a self study reference book for working professionals In order for readers to have exposure and proficiency with performing hands on analysis the open source Python and R programming languages have been adopted in the form of Jupyter notebooks and R markdown files and numerous data sets and sample computer code reflective of real world problems are available online Expanding Boundaries: Systems Thinking in the Built Environment Guillaume Habert, Arno Schlueter, 2016-08-15 Consuming over 40% of total primary energy the built environment is in the centre of worldwide strategies and measures towards a more sustainable future To provide resilient solutions a simple optimisation of individual technologies will not be sufficient In contrast whole system thinking reveals and exploits connections between parts Each system interacts with others on different scales materials components buildings cities and

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rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised examples design case studies and homework problems the third edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today s buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook Applied Data Science and Smart Systems Jaiteg Singh, SB Goyal, Rajesh Kumar Kaushal, Naveen Kumar, Sukhjit Singh Sehra, 2024-07-22 The Second International Conference on Applied Data Science and Smart Systems ADSSS 2023 was held on 15 16 December 2023 at Chitkara University Punjab India This multidisciplinary conference focussed on innovation and progressive practices in science technology and management The conference successfully brought together researchers academicians and practitioners across different domains such as artificial intelligence and machine learning software engineering automation data science business computing data communication and computer networks The presenters shared their most recent research works that are critical to contemporary business and societal landscape and encouraged the participants to devise solutions for real world challenges The Open Access version of this book available at www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license Fiscal year 1985 Department of **Energy authorization** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research and Production, United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications, 1984 Inventory of energy research and development--1973-1975 Oak Ridge National Energy/environment, 1977 Laboratory, 1976

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