

Springer Series in Reliability Engineering

Gilberto Francisco Martha deSouza *Editor*

Thermal Power Plant Performance Analysis

 Springer

Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering

**P. K. Kapur, Ompal Singh, Sunil Kumar
Khatri, Ajit Kumar Verma**



Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering:

Thermal Power Plant Performance Analysis Gilberto Francisco Martha de Souza, 2012-01-04 The analysis of the reliability and availability of power plants is frequently based on simple indexes that do not take into account the criticality of some failures used for availability analysis This criticality should be evaluated based on concepts of reliability which consider the effect of a component failure on the performance of the entire plant System reliability analysis tools provide a root cause analysis leading to the improvement of the plant maintenance plan Taking in view that the power plant performance can be evaluated not only based on thermodynamic related indexes such as heat rate Thermal Power Plant Performance Analysis focuses on the presentation of reliability based tools used to define performance of complex systems and introduces the basic concepts of reliability maintainability and risk analysis aiming at their application as tools for power plant performance improvement including selection of critical equipment and components definition of maintenance plans mainly for auxiliary systems and execution of decision analysis based on risk concepts The comprehensive presentation of each analysis allows future application of the methodology making Thermal Power Plant Performance Analysis a key resource for undergraduate and postgraduate students in mechanical and nuclear engineering

Thermal Power Plant Performance Analysis Gilberto Francisco Martha de Souza, 2012-01-04 This book presents reliability based tools used to define performance of complex systems and introduces the basic concepts of reliability maintainability and risk analysis aiming at their application as tools for power plant performance improvement

Scientific and Technological Advances in Materials for Energy Storage and Conversions Basant Singh Sikarwar, Sanjeev Kumar Sharma, 2024-08-12 This book presents the select proceedings of 2nd Biennial International Symposium on Fluids and Thermal Engineering FLUTE 2023 It covers the Scientific and Technological Advances in the field of materials and their devices for advanced energy storage and relevant energy conversion Various topics covered in this book are sustainable energy conversion and storage technologies renewable energy water desalination rechargeable batteries metal ion metal air and redox flow batteries emerging materials for energy storage energy conversion devices chemical energy storage thermoelectric and thermos electrochemical cells and many more The book is useful for researchers and practitioners in the industry and academia

Developments in Reliability Engineering Mangey Ram, 2024-08-09 Modern systems have become increasingly complex to design and build while the demand for reliability and cost effective enhancement continues Robust international competition has further intensified the need for all designers managers practitioners scientists and engineers to ensure a level of reliability of their products and processes before release at the lowest cost Developments in Reliability Engineering equips its audience with the necessary information to keep up with the latest original research and state of the art advances in reliability engineering The volume offers an excursus from historical theories and methods to the present world practical utility of these concepts with worked out examples Guides readers through reliability topics from an historical perspective to new research results advancements and latest

developments Draws on the authors experience of reliability analysis in a range of industries and disciplines showing the need for reliability from the product design stage right through to aftercare Provides methods throughout making this title a good source of actionable information Computational Intelligence in Sustainable Reliability Engineering S. C. Malik,Deepak Sinwar,Ashish Kumar,S. R. Gadde,Prasenjit Chatterjee,Bui Thanh Hung,2023-02-16 COMPUTATIONAL INTELLIGENCE IN SUBSTAINABLE RELIABILITY ENGINEERING The book is a comprehensive guide on how to apply computational intelligence techniques for the optimization of sustainable materials and reliability engineering This book focuses on developing and evolving advanced computational intelligence algorithms for the analysis of data involved in reliability engineering material design and manufacturing to ensure sustainability Computational Intelligence in Sustainable Reliability Engineering unveils applications of different models of evolutionary algorithms in the field of optimization and solves the problems to help the manufacturing industries Some special features of this book include a comprehensive guide for utilizing computational models for reliability engineering state of the art swarm intelligence methods for solving manufacturing processes and developing sustainable materials high quality and innovative research contributions and a guide for applying computational optimization on reliability and maintainability theory The book also includes dedicated case studies of real life applications related to industrial optimizations Audience Researchers industry professionals and post graduate students in reliability engineering manufacturing materials and design **Mathematical Modelling of System Resilience** Kanchan Das,Mangey Ram,2022-09-01 Almost all the systems in our world including technical social economic and environmental systems are becoming interconnected and increasingly complex and as such they are vulnerable to various risks Due to this trend resilience creation is becoming more important to system managers and decision makers this to ensure sustained performance In order to be able to ensure an acceptable sustained performance under such interconnectedness and complexity resilience creation with a system approach is a requirement Mathematical modeling based approaches are the most common approach for system resilience creation Mathematical Modelling of System Resilience covers resilience creation for various system aspects including a functional system of the supply chain overall supply chain systems various methodologies for modeling system resilience satellite based approach for addressing climate related risks repair based approach for sustainable performance of an engineering system and modeling measures of the reliability for a vertical take off and landing system Each of the chapters contributes state of the art research for the relevant resilience related topic covered in the chapter Technical topics covered in the book include 1 Supply chain risk vulnerability and disruptions 2 System resilience for containing failures and disruptions 3 Resiliency considering frequency and intensities of disasters 4 Resilience performance index 5 Resiliency of electric Traction system 6 Degree of resilience 7 Satellite observation and hydrological risk 8 Latitude of Resilience 9 On line repair for resilience 10 Reliability design for Vertical Takeoff and landing Prototype Optimization Methods in Manufacturing Processes Anand J. Kulkarni,2025-08-05 This book

presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content Questions and related keywords were prepared for the machine to query discover collate and structure by Artificial Intelligence AI clustering The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary for example climate planetary and evolution sciences Springer Nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful The automatically generated literature summaries in this book are intended as a springboard to further discoverability They are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI based author services that allow human machine interaction to generate readable usable collated research content System Performance and Management Analytics P. K. Kapur, Yury Klovchov, Ajit Kumar Verma, Gurinder Singh, 2018-07-30 This book shares key insights into system performance and management analytics demonstrating how the field of analytics is currently changing and how it is used to monitor companies efforts to drive performance Managing business performance facilitates the effective accomplishment of strategic and operational goals and there is a clear and direct correlation between using performance management applications and improved business and organizational results As such performance and management analytics can yield a range of direct and indirect benefits boost operational efficiency and unlock employees latent potential while at the same time aligning services with overarching goals The book addresses a range of topics including software reliability assessment testing quality management system performance management analysis using soft computing techniques and management analytics It presents a balanced holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics Accordingly it offers a comprehensive guide to one of the most pressing issues in today s technology dominated world namely that most companies and organizations find themselves awash in a sea of data but lack the human capital appropriate tools and knowledge to use it to help them create a competitive edge **Transactions on Engineering Technologies** Sio-Iong Ao, Haeng Kon Kim, Mahyar A. Amouzegar, 2020-07-25 This book features a selection of revised and extended research articles written by prominent researchers who participated in the 26th World Congress on Engineering and Computer Science WCECS 2018 held in San Francisco USA on October 23 25 2018 Topics covered include engineering mathematics electrical engineering communications systems computer science chemical engineering systems engineering manufacturing engineering and industrial applications With contributions carefully chosen

to represent the most cutting edge research presented at the conference and highlighting the state of the art in engineering technologies and the physical sciences and their applications the book is a valuable reference resource for graduate students and researchers working in these fields **Society 5.0** Alla G. Kravets,Alexander A. Bolshakov,Maxim V.

Shcherbakov,2023-08-24 This book focuses on open issues of Society 5.0 a new paradigm of a society that balances a human centred approach and technologies based on cyber physical systems and artificial intelligence The book contains results of how intelligent or cyber solutions help to improve the quality of life in society despite new challenges This book includes five sections Section Society 5.0 Biomedicine and Healthcare present how cyber physical systems help in healthcare e.g analysis of clinical data in pregnant women with hypertension breast cancer diagnostics healthy diet design and others In the chapter the problem of data analysis and optimization is considered The second Section Society 5.0 Human centric Cyber Solutions highlight new findings on constructing virtual reality simulators training of workers on the basis of equipment's digital twins development of human capital Society 5.0 Socio Economic Systems Modelling includes chapters concerning the application of quantum like mathematical models for the analysis of socio economic systems indicative planning models for agriculture approaches of assessing and monitoring competitiveness risks of regions A section Society 5.0 Industrial Cyber Solutions provides new results on cyber physical systems of Russian oil market railway joint diagnostics and information support for maintenance and repair of a machine building cyber physical system The last section Society 5.0 Cyber Solutions Security consider interoperability issues of security the video conferencing and scaling networks This book is directed to researchers practitioners engineers software developers professors and students We do hope the book will be useful for them

Strategic System Assurance and Business Analytics P. K. Kapur,Ompal Singh,Sunil Kumar Khatri,Ajit Kumar Verma,2020-06-19 This book systematically examines and quantifies industrial problems by assessing the complexity and safety of large systems It includes chapters on system performance management software reliability assessment testing quality management analysis using soft computing techniques management analytics and business analytics with a clear focus on exploring real world business issues Through contributions from researchers working in the area of performance management and business analytics it explores the development of new methods and approaches to improve business by gaining knowledge from bulk data With system performance analytics companies are now able to drive performance and provide actionable insights for each level and for every role using key indicators generate mobile enabled scorecards time series based analysis using charts and dashboards In the current dynamic environment a viable tool known as multi criteria decision analysis MCDA is increasingly being adopted to deal with complex business decisions MCDA is an important decision support tool for analyzing goals and providing optimal solutions and alternatives It comprises several distinct techniques which are implemented by specialized decision making packages This book addresses a number of important MCDA methods such as DEMATEL TOPSIS AHP MAUT and Intuitionistic Fuzzy MCDM which make it possible to derive

maximum utility in the area of analytics As such it is a valuable resource for researchers and academicians as well as practitioners and business experts

Thermal Analysis of Nuclear Power Plants Minjun Peng,Zhaofei Tian,Genglei Xia,Hang Wang,2025-09-30 This book highlights the thermodynamics analysis methods for thermal systems in PWR nuclear power plants encompassing both thermal balance and exergy analysis techniques The energy conversion efficiency in nuclear power plants has significant impact on their economy viability and market competitiveness By examining the size location and sources of energy loss within the thermal system of nuclear power plants we can inform the design and operation to effectively enhance operational efficiency This book presents an overview of the thermal cycles utilized by various types of nuclear power plants encompassing both Rankine and Brayton cycles Additionally it elucidates the primary factors that impact the thermal efficiency of these cycles as well as the thermal balance method predicated on the first law of thermodynamics and exergy analysis method based on the second law The rationality and effectiveness of energy utilization in the process of energy transmission and conversion in PWR nuclear power plant thermal systems are identified based on the results of thermal balance calculation and exergy analysis Additionally measures to enhance the energy utilization level of nuclear power plants are proposed This book is suitable for graduate students of nuclear energy science and engineering and senior undergraduates of nuclear engineering and nuclear technology and thermal energy engineering It can also be used as a reference for technical personnel working in nuclear power plants The English translation of this book originally in Chinese was facilitated by artificial intelligence The content was later revised by the author for accuracy

Solar Energy Ibrahim Moukhtar,Adel Z. El Dein,Adel A. Elbaset,Yasunori Mitani,2020-11-13 This book opens with a brief introduction to renewable energy and the advantages of solar energy systems an overview of concentrated solar power CSP system technologies and modeling and the application of artificial neural network ANN technologies in various solar field systems Later chapters cover data and operation methods of central tower receiver power plants CTRPP important models of ANN techniques used in solar energy fields accurate methods for modeling CTRPP the economics of solar energy systems the CSP impacts on the penetration level of photovoltaic PV systems and a look at the reliability of systems using case studies on PV systems and hybrid PV and CSP systems Provides an introduction to renewable energy and the advantages of solar energy systems Outlines methods for modeling central tower receiver power plants Includes case studies on photovoltaic PV and hybrid PV and concentrated solar power systems

Mathematical Modelling Pramod Belkhode,Prashant Maheshwary,Kanchan Borkar,J.P. Modak,2023-05-16 This book investigates human machine systems through the use of case studies such as crankshaft maintenance liner piston maintenance and biodiesel blend performance Through mathematical modelling and using various case studies the book provides an understanding of how a mathematical modelling approach can assist in working out problems in any industrial oriented activity Mathematical Modelling Simulation Analysis and Industrial Applications details a data analysis approach using mathematical modelling sensitivity This approach helps in the processing

of any type of data and can predict the result so that based on the result the activity can be controlled by knowing the most influencing variables or parameters involved in the phenomenon This book helps to solve field and experimental problems of any research activity using a data based modelling concept to assist in solving any type of problem Students in manufacturing mechanical and industrial engineering programs will find this book very useful This topic has continued to advance and incorporate new concepts so that the manufacturing field continues to be a dynamic and exciting field of study

Modeling and Simulation in Industrial Engineering Mangey Ram,J. Paulo Davim,2017-08-11 This book describes the latest research developments in modeling and simulation in industrial engineering Topics such as decision and performance analysis and industrial control systems are described Case studies in industry and services as well as engineering economy and cost estimation are also covered

Synergy Development in Renewables Assisted Multi-carrier Systems Majid Amidpour,Mohammad Ebadollahi,Farkhondeh Jabari,Mohammad-Reza Kolahi,Hadi Ghaebi,2022-01-15 This book explores the different aspects of energy in human life especially expressing the advanced technologies in renewable energy resources Due to the environmental pollution caused by fossil fuels and the non permanent nature of these resources the move towards the use of renewable energy has accelerated In recent years many attempts have been made to improve energy systems performance by using multi generation units and these set ups have been analyzed from the perspective of energy exergy economics and environmental indicators The book s primary goal is the effort to introduce new methods for assessing and upgrading the synergy Therefore it examines sustainable practices such as water energy food nexus in poly generation units novel desalination systems and smart greenhouses One of the significant issues in these energy systems is the storage methods for instance carbon capture to reduce environmental pollution and the hydrogen store for the utilization in supplementary fuel Also robust optimization uncertainty and risk aware probabilistic analysis energy management and power supply of sensitive places such as oil rig platforms by renewables are examined

Stochastic Modeling and Statistical Methods Ioannis S. Triantafyllou,Sonia Malefaki,Alex Karagrigoriou,2025-06-01 Stochastic Modeling and Statistical Methods Advances and Applications is the practical guide to the latest developments in data analysis and research methods The book explores the significant research progress that has been seen in recent decades offering vital tools for analyzing modern applications and real data Topics covered include Dynamic Reliability Stochastic Modeling System Maintainability and Parametric Semi Parametric and Nonparametric Statistical Inference Readers will find the latest advancements in these areas making it an essential resource for researchers and practitioners who want to explore these evolving fields and stay updated on cutting edge research Presents the latest breakthroughs in Reliability Engineering along with current perspectives on the field Includes shared practical knowledge of contemporary statistical modeling techniques thus enhancing analytical skills Covers the probabilistic methods used to investigate various applications in Reliability Engineering

Clean Coal Technology and Sustainable Development Guangxi Yue,Shuiqing Li,2016-07-30 This book gathers

the proceedings of the 8th International Symposium on Coal Combustion The contributions reflect the latest research on coal quality and combustion techniques for pulverized coal combustion and fluidized bed combustion special issues regarding CO₂ capture CCS industrial applications etc aspects that are of great importance in promoting academic communications between related areas and the technical development of coal related fields The International Symposium on Coal Combustion ISCC sponsored and organized by Tsinghua University since 1987 has established itself as an important platform allowing scientists and engineers to exchange information and ideas on the science and technology of coal combustion and related issues and to forge new partnerships in the growing Chinese market Researchers in the fields of clean coal combustion carbon dioxide capture and storage coal chemical engineering energy engineering etc will greatly benefit from this book

Guangxi Yue professor of the Department of Thermal Engineering in Tsinghua University Beijing China and a member of Chinese Academy of Engineering CAE Shuiqing Li professor of the Department of Thermal Engineering in Tsinghua University Beijing China

Advances in Industrial and Production Engineering Kripa Shanker,Ravi Shankar,Rahul Sindhwani,2019-04-23 This book comprises select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2018 The book discusses different topics of industrial and production engineering such as sustainable manufacturing systems computer aided engineering rapid prototyping manufacturing management and automation metrology manufacturing process optimization casting welding machining and machine tools The contents of this book will be useful for researchers as well as professionals

Operations Management and Systems Engineering Anish Sachdeva,Pradeep Kumar,Om Prakash Yadav,2019-04-08 This book comprises select proceedings of the International Conference on Production and Industrial Engineering CPIE 2018 The book focuses on the latest developments in the domain of operations management and systems engineering and presents analytical models case studies and simulation approaches relevant to a wide variety of systems engineering problems Topics such as decision sciences human factors and ergonomics transport and supply chain management manufacturing design operations research waste management modeling and simulation reliability and maintenance and sustainability in operations and manufacturing are discussed in this book The contents of this book will be useful to academics researchers and practitioners working in the field of systems engineering and operations management

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Table of Contents Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering

1. Understanding the eBook Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - The Rise of Digital Reading Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Personalized Recommendations
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering User Reviews and Ratings
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering and Bestseller Lists
5. Accessing Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering Free and Paid eBooks
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering Public Domain eBooks
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering eBook Subscription Services

- Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering Budget-Friendly Options
- 6. Navigating Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering Compatibility with Devices
 - Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Highlighting and Note-Taking Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Interactive Elements Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
- 8. Staying Engaged with Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
- 9. Balancing eBooks and Physical Books Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Setting Reading Goals Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thermal Power Plant Performance Analysis Springer Series In Reliability Engineering
 - Fact-Checking eBook Content of Thermal Power Plant Performance Analysis Springer Series In Reliability

Engineering

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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