



Contact Technology Guide



ANSYS, Inc.
Southpointe
2600 ANSYS Drive
Canonsburg, PA 15317
ansysinfo@ansys.com
<http://www.ansys.com>
(T) 724-746-3304
(F) 724-514-9494

Release 2020 R1
January 2020

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Ansys Contact Technology Guide 2015

**Valter Silva, João Sousa Cardoso, José
Antonio Mayoral Chavando**



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Algorithms and Solutions Based on Computer Technology Carlos Jahn, László Ungvári, Igor Ilin, 2022-05-03 This book is a collection of papers compiled from the conference Algorithms and Computer Based Solutions held on June 8-9 2021 at Peter the Great St Petersburg Polytechnic University SPbPU St Petersburg Russia. The authors of the book are leading scientists from Russia, Germany, Netherlands, Greece, Hungary, Kazakhstan, Portugal, and Poland. The reader finds in the book information from experts on the most interesting trends in digitalization, issues of development and implementation of algorithms, IT and digital solutions for various areas of economy and science, prospects for supercomputers and exo-intelligent platforms, applied computer technologies in digital production, healthcare and biomedical systems, digital medicine, logistics and management, digital technologies for visualization and prototyping of physical objects. The book helps the reader to increase his or her expertise in the field of computer technologies discussed. **Optimization Methods for**

Engineering Problems Dilbagh Panchal, Prasenjit Chatterjee, Mohit Tyagi, Ravi Pratap Singh, 2023-04-03 This new volume offers a variety of perspectives from investigators, industry professionals, stakeholders, and economic strategists that look at new ways of solving optimization problems related to different industrial sectors. Case studies relay how optimization methods deal with both real operative conditions in process industries and in service industries. The volume also explores emerging research areas toward the implementation of optimization algorithms for enhancement of system performance as well as system effectiveness. The book explores the role of optimization methods in engineering applications in industrial and mechanical engineering as well as in the fields of healthcare, medicine, food production, oil, textiles, energy, and agriculture. The volume offers new ways of solving optimization problems related to different industrial sectors, incorporating mathematical formulation for particular design problems and thus aiding the selection of the optimal design among many alternatives. It shows optimization methods that deal with actual operative conditions both in process and in service industries. A unique advantage of this volume is its wide range of topics in different engineering domains using novel mathematical modeling-based optimization methods for solving real-life problems. The array of examples and case studies of the effective use of optimization in diverse areas of engineering include healthcare analysis and monitoring, fetal phonocardiography, medical device design, 3D printing design for prostheses, agriculture, farming, monitoring climate conditions, environmental science, waste management, automotive and aeronautic design, industrial manufacturing, solar energy, and more. Key features: Presents case studies on optimization problems related to industry. Discusses case studies on operations management practices. Provides an overview of design optimization. Highlights case studies on process optimization. Assesses different techniques for handling engineering problems. This valuable book will be useful for researchers, scientists, faculty, and students involved or interested in the field of optimization engineering in industrial design. Indexed in SCOPUS.

Proceedings of the 6th National Symposium on Rotor Dynamics J. S. Rao, V. Arun Kumar, Soumendu

Jana,2020-10-13 This book presents select papers presented during the 6th National Symposium on Rotor Dynamics held at CSIR NAL Bangalore and focuses on the latest trends in rotor dynamics and various challenges encountered in the design of rotating machinery The book is of interest to researchers from mechanical aerospace tribology and power industries engineering service providers and academics **Innovative Approaches in Computational Structural Engineering**

George C. Tsiatas,Vagelis Plevris,2020-04-22 Nowadays numerical computation has become one of the most vigorous tools for scientists researchers and professional engineers following the enormous progress made during the last decades in computing technology in terms of both computer hardware and software development Although this has led to tremendous achievements in computer based structural engineering the increasing necessity of solving complex problems in engineering requires the development of new ideas and innovative methods for providing accurate numerical solutions in affordable computing times This collection aims at providing a forum for the presentation and discussion of state of the art innovative developments concepts methodologies and approaches in scientific computation applied to structural engineering It involves a wide coverage of timely issues on computational structural engineering with a broad range of both research and advanced practical applications This Research Topic encompasses but is not restricted to the following scientific areas modeling in structural engineering finite element methods boundary element methods static and dynamic analysis of structures structural stability structural mechanics meshless methods smart structures and systems fire engineering blast engineering structural reliability structural health monitoring and control optimization and composite materials with application to engineering structures **Handbook of Chemical Looping Technology** Ronald W. Breault,2019-01-22 This comprehensive and up to date handbook on this highly topical field covering everything from new process concepts to commercial applications

Describing novel developments as well as established methods the authors start with the evaluation of different oxygen carriers and subsequently illuminate various technological concepts for the energy conversion process They then go on to discuss the potential for commercial applications in gaseous coal and fuel combustion processes in industry The result is an invaluable source for every scientist in the field from inorganic chemists in academia to chemical engineers in industry

Information and Communication Technology for Competitive Strategies Simon Fong,Shyam Akashe,Parikshit N.

Mahalle,2018-08-30 This book contains 74 papers presented at ICTCS 2017 Third International Conference on Information and Communication Technology for Competitive Strategies The conference was held during 16 17 December 2017 Udaipur India and organized by Association of Computing Machinery Udaipur Professional Chapter in association with The Institution of Engineers India Udaipur Local Center and Global Knowledge Research Foundation This book contains papers mainly focused on ICT for Computation Algorithms and Data Analytics and IT Security etc **Recent Advances in**

Microelectronics Reliability Willem Dirk van Driel,Klaus Pressel,Mujdat Soy Turk,2024-07-12 This book describes the latest progress in reliability analysis of microelectronic products The content grows out of an EU project named Intelligent

Reliability 4 0 iRel40 see www.irel40.eu Different industrial sectors and topics are covered such as electronics in automotive rail transport lighting and personal appliances Several case studies and examples are discussed which will enable readers to assess and mitigate similar failure cases More importantly this book tries to present methodologies and useful approaches in analyzing a failure and in relating a failure to the reliability of electronic devices

Smart Proxy Modeling Shahab D. Mohaghegh, 2022-10-27 Numerical simulation models are used in all engineering disciplines for modeling physical phenomena to learn how the phenomena work and to identify problems and optimize behavior Smart Proxy Models provide an opportunity to replicate numerical simulations with very high accuracy and can be run on a laptop within a few minutes thereby simplifying the use of complex numerical simulations which can otherwise take tens of hours This book focuses on Smart Proxy Modeling and provides readers with all the essential details on how to develop Smart Proxy Models using Artificial Intelligence and Machine Learning as well as how it may be used in real world cases Covers replication of highly accurate numerical simulations using Artificial Intelligence and Machine Learning Details application in reservoir simulation and modeling and computational fluid dynamics Includes real case studies based on commercially available simulators Smart Proxy Modeling is ideal for petroleum chemical environmental and mechanical engineers as well as statisticians and others working with applications of data driven analytics

Towards Green Marine Technology and Transport Carlos Guedes Soares, Roko Dejhalla, Dusko Pavletic, 2015-09-04 *Towards Green Marine Technology and Transport* covers recent developments in marine technology and transport The book brings together a selection of papers reflecting fundamental areas of recent research and development in the fields of ship hydrodynamics marine structures ship design shipyard technology ship machinery maritime transportation

Ammonia as an Alternative Fuel and Power-to-X Enabler Valter Silva, João Sousa Cardoso, José Antonio Mayoral Chavando, 2025-10-01 *Ammonia as an Alternative Fuel and Power to X Enabler* is a holistic guide that aims to support the reader in understanding the technical aspects of ammonia production storage utilization assessing the economic viability and feasibility of integrating ammonia based energy systems navigating the regulatory and policy landscape overcoming safety concerns and addressing potential environmental impacts This is supported by case studies best practices and real world examples that illustrate successful integration and highlight lessons learned thus enabling the successful implementation of ammonia based solutions This new volume in the Woodhead Series in Bioenergy is of interest to all those working with ammonia or with an interest in biofuels energy carriers renewable energy energy systems transportation and sustainability including researchers advanced students faculty engineers scientists R D industrial practitioners and policy makers Addresses specific challenges and provides solutions related to the adoption and implementation of ammonia as an alternative fuel and energy carrier Covers production methods of ammonia ammonia fuel cells ammonia combustion engines safety considerations infrastructure requirements and policy frameworks Provides practical guidance case studies and best practices on the integration of ammonia in energy systems

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