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Scientific and Technical Aerospace Reports - 1994

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Energy Science and Applied Technology ESAT 2016 - Zhigang Fang 2016-10-14

The 2016 International Conference on Energy Science and Applied Technology (ESAT 2016) held on June 25-26 in Wuhan, China aimed to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in energy science and engineering and its applied technology. The themes presented in Energy Science and Applied Technology ESAT 2016 are: Technologies in Geology, Mining, Oil and Gas; Renewable Energy, Bio-Energy and Cell Technologies; Energy Transfer and Conversion, Materials and Chemical Technologies; Environmental Engineering and Sustainable Development; Electrical and Electronic Technology, Power System Engineering; Mechanical, Manufacturing, Process Engineering; Control and Automation; Communications and Applied Information Technologies; Applied and Computational Mathematics; Methods and Algorithms Optimization; Network Technology and Application; System Test, Diagnosis, Detection

and Monitoring; Recognition, Video and Image Processing.

Constitutive Models for Rubber XII - Claudia Marano 2022-12-22

Constitutive Models for Rubber XII is a comprehensive compilation of the oral and poster contributions to the XII European Conference on Constitutive Models for Rubbers (Milan, Italy, 7-9 September 2022). As the first after the COVID Pandemic, the XII edition again brought together researchers from the industry and the academia working in the field of elastomer technology and science to discuss the most recent advancement in the following topics: • Constitutive models • Micro-structural investigations • Experimental methods and characterization • Numerical methods • Fatigue and fracture • Aging • Industrial applications • Smart elastomer materials: applications and modelling Including more than 80 contributions from authors from around the world, this book aims at professionals and academics interested in elastomer technology and science.

Advances in Structural and Multidisciplinary Optimization - Axel Schumacher 2017-12-04

The volume includes papers from the WSCMO conference in Braunschweig 2017 presenting research of all aspects of the optimal design of structures as well as multidisciplinary design optimization where the involved disciplines deal with the analysis of solids, fluids or

other field problems. Also presented are practical applications of optimization methods and the corresponding software development in all branches of technology.

SAE Technical Paper Series - 1999

Bearing Dynamic Coefficients in Rotordynamics - Lukasz Brenkacz
2021-03-29

A guide to bearing dynamic coefficients in rotordynamics that includes various computation methods Bearing Dynamic Coefficients in Rotordynamics delivers an authoritative guide to the fundamentals of bearing and bearing dynamic coefficients containing various computation methods. Three of the most popular and state-of-the-art methods of determining coefficients are discussed in detail. The computation methods covered include an experimental linear method created by the author, and numerical linear and nonlinear methods using the finite element method. The author—a renowned expert on the topic—presents the results and discusses the limitations of the various methods. Accessibly written, the book provides a clear analysis of the fundamental phenomena in rotor dynamics and includes many illustrations from numerical analysis and the results of the experimental research. Filled with practical examples, the book also includes a companion website hosting code used to calculate the dynamic coefficients of journal bearings. This important book: Covers examples of different computation methods, presents results, and discusses limitations of each Reviews the fundamentals of bearing and bearing dynamic coefficients Includes illustrations from the numerical analysis and results of the experimental research Offers myriad practical examples and a companion website Written for researchers and practitioners working in rotordynamics, Bearing Dynamic Coefficients in Rotordynamics will also earn a place in the libraries of graduate students in mechanical and aerospace engineering who seek a comprehensive treatment of the foundations of this subject.

A Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems - Pardeep Kumar 2021-08-23

This book aims at offering a unique collection of ideas and experiences mainly focusing on the main streams and merger of Artificial Intelligence (AI) and the Internet of Things (IoT) for a wide slice of the communication and networking community. In the era when the world is grappling with many unforeseen challenges, scientists and researchers are envisioning smart cyber systems that guarantee sustainable development for a better human life. The main contributors that destined to play a huge role in developing such systems, among others, are AI and IoT. While AI provides intelligence to machines and data by identifying patterns, developing predictions, and detecting anomalies, IoT performs as a nerve system by connecting a huge number of machines and capturing an enormous amount of data. AI-enabled IoT, therefore, redefines the way industries, businesses, and economies function with increased automation and efficiency and reduced human interaction and costs. This book is an attempt to publish innovative ideas, emerging trends, implementation experience, and use-cases pertaining to the merger of AI and IoT. The primary market of this book is centered around students, researchers, academicians, industrialists, entrepreneurs, and professionals working in electrical/computer engineering, IT, telecom/electronic engineering, and related fields. The secondary market of this book is related to individuals working in the fields such as finance, management, mathematics, physics, environment, mechatronics, and the automation industry.

Journal of Tribology - 2007

Computational Modelling of Concrete Structures - Gunther Meschke 2020-11-26

This conference proceedings brings together the work of researchers and practising engineers concerned with computational modelling of complex concrete, reinforced concrete and prestressed concrete structures in engineering practice. The subjects considered include computational mechanics of concrete and other cementitious materials, including masonry. Advanced discretisation methods and microstructural aspects within multi-field and multi-scale settings are discussed, as well as

modelling formulations and constitutive modelling frameworks and novel experimental programmes. The conference also considered the need for reliable, high-quality analysis and design of concrete structures in regard to safety-critical structures, with a view to adopting these in codes of practice or recommendations. The book is of special interest to researchers in computational mechanics, and industry experts in complex nonlinear simulations of concrete structures.

Vibration Problems ICOVP 2011 : the 10th International Conference on Vibration Problems - 2011

Instrumentation, Measurement, Circuits and Systems - Tianbiao Zhang 2012-03-09

The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology, held on London, UK, November 24-25, 2011. Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design. Technologies such as solid models may be used as the basis for finite element analysis (FEA) and / or computational fluid dynamics (CFD) of the design. Through the application of computer-aided manufacturing (CAM), the models may also be used directly by software to create "instructions" for the manufacture of objects represented by the models, through computer numerically controlled (CNC) machining or other automated processes, without the need for intermediate drawings. This volume covers the subject areas of mechanical engineering and technology, and also covers interdisciplinary subject areas of computers, communications, control and automation. We hope that researchers, graduate students and other interested readers benefit scientifically from the book and also find it stimulating in the process.

Hydraulic Failure Analysis - George E. Totten 2001

Based on a December 1999 symposium held in Reno, this collection of 41 papers reviews new technologies being developed to address hydraulic wear and failure problems. The main subjects are tribological design,

failure analysis, improved materials, seals, and the effects of fluids on hydraulic pump w

Modeling and Simulation in Engineering - Catalin Alexandru 2012-03-07
This book provides an open platform to establish and share knowledge developed by scholars, scientists, and engineers from all over the world, about various applications of the modeling and simulation in the design process of products, in various engineering fields. The book consists of 12 chapters arranged in two sections (3D Modeling and Virtual Prototyping), reflecting the multidimensionality of applications related to modeling and simulation. Some of the most recent modeling and simulation techniques, as well as some of the most accurate and sophisticated software in treating complex systems, are applied. All the original contributions in this book are jointed by the basic principle of a successful modeling and simulation process: as complex as necessary, and as simple as possible. The idea is to manipulate the simplifying assumptions in a way that reduces the complexity of the model (in order to make a real-time simulation), but without altering the precision of the results.

Unified Strength Theory and Its Applications - Mao-Hong Yu 2017-11-21
This book thoroughly describes a theory concerning the yield and failure of materials under multi-axial stresses - the Unified Strength Theory, which was first proposed by the author and has been frequently quoted since. It provides a system of yield and failure criteria adopted for most materials, from metals to rocks, concretes, soils, and polymers. This new edition includes six additional chapters: General behavior of Strength theory function; Visualization of the Unified Strength Theory; Equivalent Stress of the UST and Comparisons with other criteria; Economic Signification of the UST; General form of failure criterion; Beauty of Strength Theories. It is intended for researchers and graduate students in various fields, including engineering mechanics, material mechanics, plasticity, soil mechanics, rock mechanics, mechanics of metallic materials and civil engineering, hydraulic engineering, geotechnical engineering, mechanical engineering and military engineering.

Actuators and Their Applications - Inamuddin 2020-04-28

As demand has increased for new types of equipment that are more suited to the ever-evolving world of industry, demand for both new and traditional types of actuators has soared. From automotive and aeronautical to biomedical and robotics, engineers are constantly developing actuating devices that are adapted to their particular needs in their particular field, and actuators are used in almost every field of engineering that there is. This volume not only lays out the fundamentals of actuators, such as how they operate, the different kinds, and their various applications, but it also informs the engineer or student about the new actuators that are being developed and the state-of-the-art of actuators. Edited and written by highly experienced and well-respected engineers with a deep understanding of their subject, there is no other volume on actuators that is more current or comprehensive. Whether as a guide for the latest innovations in actuators, a refresher reference work for the veteran engineer, or an introductory text for the engineering student, this is a must-have for any engineer's or university's library. Covering the theory and the practical applications, this breakthrough volume is a "one stop shop" for any engineer or student interested in actuators.

Proceedings of the Tenth U.S.-Japan Conference on Composite Materials
- Fu-Kuo Chang 2002

Presentations by advanced materials specialists from around the world. Of special interest in this volume are the presentations on application areas such as automotive and civil engineering, nanomaterials, ceramic/metal composites, smart materials, and composite structures.

Urban Habitat Constructions Under Catastrophic Events - Federico M. Mazzolani 2010-08-27

COST is an intergovernmental framework for European Cooperation in Science and Technology, allowing the coordination of nationally-funded research on a European level. Part of COST was COST Action C26 Urban Habitat Constructions Under Catastrophic Events which started in 2006 and held its final conference in Naples, Italy, on 16-18 September 2010

Applied Mechanics And Mechanical Engineering - Hong Hua Tan 2010-08-13

The 2010 International Conference on Applied Mechanics and Mechanical Engineering (ICAMME 2010), was held in Changsha (China) on September 8th and 9th, 2010. The goal of these proceedings was to bring together researchers from academia and industry, as well as technologists, to share ideas, problems and solutions related to the multifaceted aspects of applied mechanics and mechanical engineering. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 477 peer-reviewed papers are grouped into 12 chapters: Session One: Computational Mechanics and Applied Mechanics, Session Two: Mechanical Design, Session Three: Materials Science and Processing, Session Four: System Dynamics and Simulation, Session Five: PC Guided Design and Manufacture, Session Six: Other Related Topics, Session Seven: Computational Mechanics and Applied Mechanics, Session Eight: Mechanical Design, Session Nine: Materials Science and Processing, Session Ten: System Dynamics and Simulation, Session Eleven: PC-Guided Design and Manufacture, Session Twelve: Other Topics. This volume thus provides an invaluable insight into the current state-of-the-art of this field.

Analytical Methods in Petroleum Upstream Applications - Cesar Ovalles 2015-04-02

Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components, classes of compounds, properties, and features of petroleum and its fractions. Recognized experts explore a host of topics, including: A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil-in-water measurements and monitoring The chemical and physical properties of heavy oils, their fractions, and products from their upgrading Analytical

measurements using gas chromatography and nuclear magnetic resonance (NMR) applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream, midstream, and downstream operations Due to the renaissance of gas and oil production in North America, interest has grown in analytical methods for a wide range of applications. The understanding provided in this text is designed to help chemists, geologists, and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations, providing insight into optimum development and extraction schemes.

Applied Mechanics Reviews - 1993

Advances in Materials and Pavement Prediction - Eyad Masad
2018-07-16

Advances in Materials and Pavement Performance Prediction contains the papers presented at the International Conference on Advances in Materials and Pavement Performance Prediction (AM3P, Doha, Qatar, 16- 18 April 2018). There has been an increasing emphasis internationally in the design and construction of sustainable pavement systems. Advances in Materials and Pavement Prediction reflects this development highlighting various approaches to predict pavement performance. The contributions discuss links and interactions between material characterization methods, empirical predictions, mechanistic modeling, and statistically-sound calibration and validation methods. There is also emphasis on comparisons between modeling results and observed performance. The topics of the book include (but are not limited to): • Experimental laboratory material characterization • Field measurements and in situ material characterization • Constitutive modeling and simulation • Innovative pavement materials and interface systems • Non-destructive measurement techniques • Surface characterization, tire-surface interaction, pavement noise • Pavement rehabilitation • Case studies Advances in Materials and Pavement Performance Prediction will be of interest to academics and engineers

involved in pavement engineering.

EPRI Journal - Electric Power Research Institute 1985

Proceedings of the 9th IFToMM International Conference on Rotor Dynamics - Paolo Pennacchi 2015-05-26

This book presents the proceedings of the 9th IFToMM International Conference on Rotor Dynamics. This conference is a premier global event that brings together specialists from the university and industry sectors worldwide in order to promote the exchange of knowledge, ideas, and information on the latest developments and applied technologies in the dynamics of rotating machinery. The coverage is wide ranging, including, for example, new ideas and trends in various aspects of bearing technologies, issues in the analysis of blade dynamic behavior, condition monitoring of different rotating machines, vibration control, electromechanical and fluid-structure interactions in rotating machinery, rotor dynamics of micro, nano and cryogenic machines, and applications of rotor dynamics in transportation engineering. Since its inception 32 years ago, the IFToMM International Conference on Rotor Dynamics has become an irreplaceable point of reference for those working in the field and this book reflects the high quality and diversity of content that the conference continues to guarantee.

Insights and Innovations in Structural Engineering, Mechanics and Computation - Alphose Zingoni 2016-11-25

Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials).

Computational Modelling of Concrete Structures - Nenad Bicanic

2010-02-24

Since 1984 the EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010) has provided a forum for academic discussion of the latest theoretical, algorithmic and modelling developments associated with computational simulations of concrete and concrete structure

Steam Microturbines in Distributed Cogeneration - Jan Kiciński

2014-11-05

This book presents the most recent trends and concepts in power engineering, especially with regard to prosumer and civic energy generation. In so doing, it draws widely on his experience gained during the development of steam microturbines for use in small combined heat and power stations based on the organic Rankine cycle (CHP-ORC). Major issues concerning the dynamic properties of mechanical systems, in particular rotating systems, are discussed, and the results obtained when using unconventional bearing systems, presented. Modeling and analysis of radial-flow and axial-flow microturbines are addressed in detail, covering rotor analysis with different bearing systems, simulation modal analysis, and stress analysis. Furthermore, experimental studies of the dynamic properties of microturbine elements are extensively described. Interest in distributed generation and CHP-ORC is growing rapidly, and the potential market for such systems promises to be very large. This book will be of value for engineers and scientists involved in the design, modeling, operation, and diagnostics of various types of turbomachinery, especially steam microturbines.

Modern Tribology Handbook, Two Volume Set - Bharat Bhushan

2000-12-28

Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale. The results have resonated throughout the field of tribology. For example, new applications require detailed understanding of the tribological process on macro- and microscales and new knowledge guides the rational

IUTAM Symposium on Emerging Trends in Rotor Dynamics - K. Gupta

2011-01-06

Rotor dynamics is an important branch of dynamics that deals with behavior of rotating machines ranging from very large systems like power plant rotors, for example, a turbogenerator, to very small systems like a tiny dentist's drill, with a variety of rotors such as pumps, compressors, steam/gas turbines, motors, turbopumps etc. as used for example in process industry, falling in between. The speeds of these rotors vary in a large range, from a few hundred RPM to more than a hundred thousand RPM. Complex systems of rotating shafts depending upon their specific requirements, are supported on different types of bearings. There are rolling element bearings, various kinds of fluid film bearings, foil and gas bearings, magnetic bearings, to name but a few. The present day rotors are much lighter, handle a large amount of energy and fluid mass, operate at much higher speeds, and therefore are most susceptible to vibration and instability problems. This have given rise to several interesting physical phenomena, some of which are fairly well understood today, while some are still the subject of continued investigation. Research in rotor dynamics started more than one hundred years ago. The progress of the research in the early years was slow. However, with the availability of larger computing power and versatile measurement technologies, research in all aspects of rotor dynamics has accelerated over the past decades. The demand from industry for light weight, high performance and reliable rotor-bearing systems is the driving force for research, and new developments in the field of rotor dynamics. The symposium proceedings contain papers on various important aspects of rotor dynamics such as, modeling, analytical, computational and experimental methods, developments in bearings, dampers, seals including magnetic bearings, rub, impact and foundation effects, turbomachine blades, active and passive vibration control strategies including control of instabilities, nonlinear and parametric effects, fault diagnostics and condition monitoring, and cracked rotors. This volume is of immense value to teachers, researchers in educational institutes, scientists, researchers in R&D laboratories and practising

engineers in industry.

Proceedings of Asia International Conference on Tribology 2018 - Mohd Fadzli Bin Abdollah 2018-09-17

This ebook is a compilation of 234 papers presented at the 6th Asia International Conference on Tribology (ASIATRIB2018): Kuching, Sarawak - Malaysia from 17 to 20 September 2018.

Recent Advances in Mechanical Engineering - Anil Kumar
2021-05-25

This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

Constitutive Models for Rubber III - J. Busfield 2003-01-01

Recent developments in the modelling of rubber are collated in this volume, including not only stress-strain behaviour and the use of the large strain finite element method for simulation, but also fatigue, fracture, filler reinforcement, dynamic properties and the effects of ageing.

Structures and Building Materials V - Yun Hae Kim 2015-07-27
Collection of selected, peer reviewed papers from the 2015 5th

International Conference on Structures and Building Materials (ICSBM 2015), April 16-17, 2015, Shenzhen, China. The 42 papers are grouped as follows: Chapter 1: Geotechnical and Structural Engineering; Chapter 2: Building Materials

Tragverhalten von nicht starren Flachfundationen unter Berücksichtigung der lokalen Steifigkeitsverhältnisse - André Arnold 2012

Multiscale Modeling to Tackle the Complexity of Load-Bearing Organ and Tissue Regulation - Jerome Noailly 2022-03-11

Proceedings of the 10th International Conference on Rotor Dynamics - IFToMM - Katia Lucchesi Cavalca 2018-08-20

IFToMM conferences have a history of success due to the various advances achieved in the field of rotor dynamics over the past three decades. These meetings have since become a leading global event, bringing together specialists from industry and academia to promote the exchange of knowledge, ideas, and information on the latest developments in the dynamics of rotating machinery. The scope of the conference is broad, including e.g. active components and vibration control, balancing, bearings, condition monitoring, dynamic analysis and stability, wind turbines and generators, electromechanical interactions in rotor dynamics and turbochargers. The proceedings are divided into four volumes. This first volume covers the following main topics: Active Components and Vibration Control; Balancing; Bearings: Fluid Film Bearings, Magnetic Bearings, Rolling Bearings and Seals; and Blades, Bladed Systems and Impellers.

Advances in Geology and Resources Exploration - Ahmad Safuan Bin A Rashid 2022-09-06

Advances in Geology and Resources Exploration provides a collection of papers resulting from the conference on Geology and Resources Exploration (ICGRED 2022), Harbin, China, 21-23 January, 2022. The primary goal of the conference is to promote research and developmental activities in geology, resources exploration and development, and

another goal is to promote scientific information interchange between scholars from the top universities, business associations, research centers and high-tech enterprises working all around the world. The conference conducted in-depth exchanges and discussions on relevant topics such as geology, resources exploration, aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of engineering geology, geological resources and geothermal energy. By sharing the status of scientific research achievements and cutting-edge technologies, this helps scholars and engineers all over the world to comprehend the academic development trend and to broaden research ideas. With a view to strengthen international academic research, academic topics exchange and discussion, and promoting the industrialization cooperation of academic achievements.

Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges - Nigel Powers 2018-07-04

Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), held in Melbourne, Australia, 9-13 July 2018. This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018, including the T.Y. Lin Lecture, 10 Keynote Lectures, and 382 technical papers from 40 countries. The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance, safety, risk, management and life-cycle performance. Major topics include: new design methods, bridge codes, heavy vehicle and load models, bridge management systems, prediction of future traffic models, service life prediction, residual service life, sustainability and life-cycle assessments, maintenance strategies, bridge diagnostics, health monitoring, non-destructive testing, field testing, safety and serviceability, assessment and evaluation, damage identification, deterioration modelling, repair and retrofitting strategies, bridge

reliability, fatigue and corrosion, extreme loads, advanced experimental simulations, and advanced computer simulations, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of more rational decision-making on bridge maintenance, safety, risk, management and life-cycle performance of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering.

System Simulation and Scientific Computing - Tianyuan Xiao 2012-10-08
The Three-Volume-Set CCIS 323, 324, 325 (AsiaSim 2012) together with the Two-Volume-Set CCIS 326, 327 (ICSC 2012) constitutes the refereed proceedings of the Asia Simulation Conference, AsiaSim 2012, and the International Conference on System Simulation, ICSC 2012, held in Shanghai, China, in October 2012. The 267 revised full papers presented were carefully reviewed and selected from 906 submissions. The papers are organized in topical sections on modeling theory and technology; modeling and simulation technology on synthesized environment and virtual reality environment; pervasive computing and simulation technology; embedded computing and simulation technology; verification, validation and accreditation technology; networked modeling and simulation technology; modeling and simulation technology of continuous system, discrete system, hybrid system, and intelligent system; high performance computing and simulation technology; cloud simulation technology; modeling and simulation technology of complex system and open, complex, huge system; simulation based acquisition and virtual prototyping engineering technology; simulator; simulation language and intelligent simulation system; parallel and distributed software; CAD, CAE, CAM, CIMS, VP, VM, and VR; visualization; computing and simulation applications in science and engineering; computing and simulation applications in management, society and economics; computing and simulation applications in life and biomedical engineering; computing and simulation applications in energy and

environment; computing and simulation applications in education; computing and simulation applications in military field; computing and simulation applications in medical field.

Innovation, Communication and Engineering - Teen-Hang Meen
2013-10-08

This volume represents the proceedings of the 2013 International Conference on Innovation, Communication and Engineering (ICICE 2013). This conference was organized by the China University of Petroleum (Huadong/East China) and the Taiwanese Institute of Knowledge Innovation, and was held in Qingdao, Shandong, P.R. China, October 26 - November 1, 2013. The conference received 653 submitted papers from 10 countries, of which 214 papers were selected by the committees to be presented at ICICE 2013. The conference provided a unified communication platform for researchers in a wide range of fields from information technology, communication science, and applied

mathematics, to computer science, advanced material science, design and engineering. This volume enables interdisciplinary collaboration between science and engineering technologists in academia and industry as well as networking internationally. Consists of a book of abstracts (260 pp.) and a USB flash card with full papers (912 pp.).

Tribology of Machine Hammer Peened Tool Surfaces for Deep Drawing -
Daniel Harald Trauth 2016-05-18

Zwecks Reduktion von Reibung und Verschleiß beim Tiefziehen von Leichtbauwerkstoffen wurden die Oberflächen gehärteter Ziehwerkzeuge durch maschinelles Oberflächenhämmern bearbeitet. Gegenstand der Dissertation ist die Erforschung der Wechselwirkungen zwischen den Parametern des Oberflächenhämmerns und den resultierenden Werkzeugoberflächen sowie die Wirkungsweise von gehämmerten Werkzeugoberflächen auf Reibung, Verschleiß und Schmierung.