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Optimierung von PV-Wechselrichtern im Netzparallelbetrieb mithilfe analytischer Verhaltens- und Verlustleistungsmodelle-Pinne, Julia 2015-03-05 Photovoltaik-Wechselrichter haben in den vergangenen Jahren eine große Bedeutung erlangt. Bei der Entwicklung künftiger PV-Wechselrichter liegt der Fokus auf der Reduktion der Kosten bei gleichzeitiger Erzielung eines hohen Wirkungsgrads sowie geringem Gewichts und Bauvolumens. Die Erfüllung dieser Anforderungen ist in hohem Maße mit dem Design der Leistungsstufe verbunden, wobei i.d.R. eine Vielzahl von Topologien und Bauelemente zur Auswahl stehen und der Entwickler folglich einer mehrdimensionalen Optimierungsaufgabe gegenübersteht. In der vorliegenden Arbeit wird ein computergestütztes Design- und Optimierungsverfahren für leistungselektronische Konverter weiterentwickelt und validiert, welches den Entwickler bei der Lösung ebendieser mehrdimensionalen Optimierungsaufgabe unterstützt. Das Verfahren basiert auf analytischen Verhaltens- und Verlustleistungsmodellen, sodass die Ermittlung einer Vielzahl von Lösungen innerhalb kürzester Zeit möglich ist. Das Verfahren wird anhand der Optimierung einer Wechselrichterstufe im mittleren Leistungsbereich demonstriert, mittels derer zudem die messtechnische Validierung des Verfahrens vorgenommen wird. Darüber hinaus erfolgt die Validierung und Weiterentwicklung des Verfahrens für Schaltfrequenzen von bis zu 100 kHz.

Scientific and Technical Aerospace Reports- 1985

Innovative Product Design and Intelligent Manufacturing Systems-BBVL. Deepak 2020-03-13 This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

Catalog-University of Texas. Library. Latin American Collection 1969

Joseph Conrad Today- 1975

The Spectator- 1972

The Cumulative Book Index- 1990 A world list of books in the English language.

Vapor-liquid Equilibrium Data-Shuzo Ohe 1989

Python for Data Analysis-Wes McKinney 2013 Presents case studies and instructions on how to solve data analysis problems using Python.

Rapid GUI Programming with Python and Qt-Mark Summerfield 2007-10-18 Whether you're building GUI prototypes or full-fledged cross-platform GUI applications with native look-and-feel, PyQt 4 is your fastest, easiest, most powerful solution. Qt expert Mark Summerfield has written the definitive best-practice guide to PyQt 4 development. With Rapid GUI Programming with Python and Qt you'll learn how to build efficient GUI applications that run on all major operating systems, including Windows, Mac OS X, Linux, and many versions of Unix, using the same source code for all of them. Summerfield systematically introduces every core GUI development technique: from dialogs and windows to data handling; from events to printing; and more. Through the book's realistic examples you'll discover a completely new PyQt 4-based programming approach, as well as coverage of many new topics, from PyQt 4's rich text engine to advanced model/view and graphics/view programming. Every key concept is illuminated with realistic, downloadable examples—all tested on Windows, Mac OS X, and Linux with Python 2.5, Qt 4.2, and PyQt 4.2, and on Windows and Linux with Qt 4.3 and PyQt 4.3.

Lithium-Ion Batteries-Gianfranco Pistoia 2013-12-16 Lithium-Ion Batteries features an in-depth description of different lithium-ion applications, including important features such as safety and reliability. This title acquaints readers with the numerous and often consumer-oriented applications of this widespread battery type. Lithium-Ion Batteries also explores the concepts of nanostructured materials, as well as the importance of battery management systems. This handbook is an invaluable resource for electrochemical engineers and battery and fuel cell experts everywhere, from research institutions and universities to a worldwide array of professional industries. Contains all applications of consumer and industrial lithium-ion batteries, including reviews, in a single volume Features contributions from the world's leading industry and research experts Presents executive summaries of specific case studies Covers information on basic research and application approaches

Thermoelectrics Handbook-D.M. Rowe 2018-10-03 Ten years ago, D.M. Rowe introduced the bestselling CRC Handbook of Thermoelectrics to wide acclaim. Since then, increasing environmental concerns, desire for long-life electrical power sources, and continued progress in miniaturization of electronics has led to a substantial increase in research activity involving thermoelectrics. Reflecting the latest trends and developments, the Thermoelectrics Handbook: Macro to Nano is an extension of the earlier work and covers the entire range of thermoelectrics disciplines. Serving as a convenient reference as well as a thorough introduction to thermoelectrics, this book includes contributions from 99 leading authorities from around the world. Its coverage spans from general principles and theoretical concepts to material preparation and measurements; thermoelectric materials; thermoelements, modules, and devices; and thermoelectric systems and applications. Reflecting the enormous impact of nanotechnology on the field-as the thermoelectric properties of nanostructured materials far surpass the performance of conventional materials-each section progresses systematically from macro-scale to micro/nano-scale topics. In addition, the book contains an appendix listing major manufacturers and suppliers of thermoelectric modules. There is no longer any need to spend hours plodding through the journal literature for information. The Thermoelectrics Handbook: Macro to Nano offers a timely, comprehensive treatment of all areas of thermoelectrics in a single, unified reference.

CRC Handbook of Thermoelectrics-D.M. Rowe 2018-12-07 Thermoelectrics is the science and technology associated with thermoelectric converters, that is, the generation of electrical power by the Seebeck effect and refrigeration by the Peltier effect. Thermoelectric generators are being used in increasing numbers to provide electrical power in medical, military, and deep space applications where combinations of their desirable properties outweigh their relatively high cost and low generating efficiency. In recent years there also has been an increase in the requirement for thermoelectric coolers (Peltier devices) for use in infrared detectors and in optical communications. Information on thermoelectrics is not readily available as it is widely scattered throughout the literature. The Handbook centralizes this information in a convenient format under a single cover. Sixty of the world's foremost authorities on thermoelectrics have contributed to this Handbook. It is comprised of fifty-five chapters, a number of which contain previously unpublished material. The contents are arranged in eight sections: general principles and theoretical considerations, material preparation, measurement of thermoelectric properties, thermoelectric materials, thermoelectric generation, generator applications, thermoelectric refrigeration, and applications of thermoelectric cooling. The CRC Handbook of Thermoelectrics has a broad-based scope. It will interest researchers, technologists, and manufacturers, as well as students and the well-informed, non-specialist reader.

Application of Thermo-Fluidic Measurement Techniques-Tongbeum Kim 2016-07-20 Application of Thermo-Fluidic Measurement Techniques: An Introduction provides essential measurement techniques in heat transfer and aerodynamics. In addition to a brief, but physically elaborate description of the principles of each technique, multiple examples for each technique are included. These examples elaborate all the necessary details of (a) test setups, (b) calibration, (c) data acquisition procedure, and (d) data interpretation, with comments on the limitations of each technique and how to avoid mistakes that are based on the authors' experience. The authors have different expertise in convection heat transfer and aerodynamics, and have collaborated on various research projects that employ a variety of experimental techniques. Each author has a different view and approach to individual experimental techniques, but these views complement each other, giving new users of each technique a rounded view. With the introduction of this valuable reference book, the reader can quickly learn both the overall and detailed aspects of each experimental technique and then apply them to their own work. Contains both basic principles and fundamental, physical descriptions Provides examples that demonstrate how each experimental technique can be used for industrial testing and academic research in heat transfer and aerodynamics Includes practical and in-depth examples for each technique, with comments on each experimental technique based on the authors' experiences, including limitations and trial errors with some examples of data interpretation Combines classical techniques in aerodynamics and conduction/convection heat transfer with modern, cutting-edge approaches Collates the information about various pointwise and whole field velocity and thermal measurement techniques in a single resource

Computational Gasdynamics-Culbert B. Laney 1998-06-13 Numerical methods are indispensable tools in the analysis of complex fluid flows. This book focuses on computational techniques for high-speed gas flows, especially gas flows containing shocks and other steep gradients. The book decomposes complicated numerical methods into simple modular parts, showing how each part fits and how each method relates to or differs from others. The text begins with a review of gasdynamics and computational techniques. Next come basic principles of computational gasdynamics. The last two parts cover basic techniques and advanced techniques. Senior and graduate level students, especially in aerospace engineering, as well as researchers and practising engineers, will find a wealth of invaluable information on high-speed gas flows in this text.

Thermal Energy Storage Technologies for Sustainability-S. Kalaiselvam 2014-07-30 Thermal Energy Storage Technologies for Sustainability is a broad-based overview describing the state-of-the-art in latent, sensible, and thermo-chemical energy storage systems and their applications across industries. Beginning with a discussion of the efficiency and conservation advantages of balancing energy demand with production, the book goes on to describe current state-of-the-art technologies. Not stopping with description, the authors also discuss design, modeling, and simulation of representative systems, and end with several case studies of systems in use. Describes how thermal energy storage helps bridge the gap between energy demand and supply, particularly for intermittent power sources like solar, wind, and tidal systems Provides tables, illustrations, and comparative case studies that show applications of TES systems across industries Includes a chapter on the rapidly developing field of viable nanotechnology-based thermal energy storage systems

A Thermochemical Heat Storage System for Households-Armand Fopah Lele 2016-07-09 The book offers a comprehensive report on the design and optimization of a thermochemical heat storage system for use in buildings. It combines theoretical and experimental work, with a special emphasis on model-based methods. It describes the numerical modeling of the heat exchanger, which allows recovery of about two thirds of the waste heat from both solar and thermal energy. The book also provides readers with a snapshot of current research on thermochemical storage systems, and an in-depth review of the most important concepts and methods in thermal management modeling. It represents a valuable resource for students, engineers and researchers interested in thermal energy storage processes, as well as for those dealing with modeling and 3D simulations in the field of energy and process engineering.

Fast Scanning Calorimetry-Christoph Schick 2016-06-28 In the past decades, the scan rate range of calorimeters has been extended tremendously at the high end, from approximately 10 up to 10 000 000 °C/s and more. The combination of various calorimeters and the newly-developed Fast Scanning Calorimeters (FSC) now span 11 orders of magnitude, by which many processes can be mimicked according to the time scale(s) of chemical and physical transitions occurring during cooling, heating and isothermal stays in case heat is exchanged. This not only opens new areas of research on polymers, metals, pharmaceuticals and all kinds of substances with respect to glass transition, crystallization and melting phenomena, it also enables in-depth study of metastability and reorganization of samples on an 1 to 1000 ng scale. In addition, FSC will become a crucial tool for understanding and optimization of processing methods at high speeds like injection molding. The book resembles the state-of-the-art in Thermal Analysis & Calorimetry and is an excellent starting point for both experts and newcomers in the field.

Leitfaden Der Praktischen Physik-F. Kohlrausch 2019-02-23 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Microfluidics Based Microsystems-S. Kakaç 2010-06-30 This volume contains an archival record of the NATO Advanced Study Institute on Microfluidics Based Microsystems - Fundamentals and Applications held in Çeşme-Izmir, Turkey, August 23-September 4, 2009. ASIs are intended to be high-level teaching activity in scientific and technical areas of current concern. In this volume, the reader may find interesting chapters and various microsystems fundamentals and applications. As the world becomes increasingly concerned with terrorism, early - spot detection of terrorist's weapons, particularly bio-weapons agents such as bacteria and viruses are extremely important. NATO Public Diplomacy division, Science for Peace and Security section support research, Advanced Study Institutes and workshops related to security. Keeping this policy of NATO in mind, we made such a proposal on Microsystems for security. We are very happy that leading experts agreed to come and lecture in this important NATO ASI. We will see many examples that will show us Microfluidics usefulness for rapid diagnostics following a bioterrorism attack. For the applications in national security and anti-terrorism, microfluidic system technology must meet the challenges. To develop microsystems for security and to provide a comprehensive state-of-the-art assessment of the existing research and applications by treating the subject in considerable depth through lectures from eminent professionals in the field, through discussions and panel sessions are very beneficial for young scientists in the field.

Microfluidics in Cell Biology Part B: Microfluidics in Single Cells- 2018-08-27 Microfluidics in Cell Biology Part B: Microfluidics in Single Cells, Volume 147, a new volume in the Methods in Cell Biology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Unique to this updated volume are three sections on microfluidics in various single cell models, including microfluidics in microorganisms, microfluidics for cell culture and cell sorting of mammalian cells, and microfluidics for cell migration. Specific sections in this latest release include Temperature control and drug delivery for cell division cycle control in fission yeast H2O2 stress response in budding yeast, Antibiotic resistance in bacteria, Metabolism in bacteria, Fluidized beds for bacterial sorting and amplification, Microfluidics for cell culture and cell sorting of mammalian cells, Hydrogel microwells, Immune cells migration in complex environments, Neutrophils migration in health and disease, Cell guidance by physical cues, Stable gradients in gels of extracellular matrix for cancer cell migration, and more. Contains contributions from experts in the field from across the world Covers a wide array of topics on both mitosis and meiosis Includes relevant, analysis based topics

Sensors, Thermal Sensors-Wolfgang Göpel 2008-07-11 'Sensors' is the first self-contained series to deal with the whole area of sensors. It describes general aspects, technical and physical fundamentals, construction, function, applications and developments of the various types of sensors. This volume describes the construction and applicational aspects of thermal sensors while presenting a rigorous treatment of the underlying physical principles. It provides a unique overview of the various categories of sensors as well as of specific groups, e.g. temperature sensors (resistance thermometers, thermocouples, and radiation thermometers), noise and acoustic thermometers, heat-flow and mass-flow sensors. Specific facets of applications are presented by specialists from different fields including process control, automotive technology and cryogenics. This volume is an indispensable reference work and text book for both specialists and newcomers, researchers and developers.

Heat Transfer Enhancement with Nanofluids-Vincenzo Bianco 2015-04-01 Nanofluids are gaining the attention of scientists and researchers around the world. This new category of heat transfer medium improves the thermal conductivity of fluid by suspending small solid particles within it and offers the possibility of increased heat transfer in a variety of applications. Bringing together expert contributions from across the globe, Heat Transfer Enhancement with Nanofluids presents a complete understanding of the application of nanofluids in a range of fields and explains the main techniques used in the analysis of nanofluid flow and heat transfer. Providing a rigorous framework to help readers develop devices employing nanofluids, the book addresses basic topics that include the analysis and measurements of thermophysical properties, convection, and heat exchanger performance. It explores the issues of convective instabilities, nanofluids in porous media, and entropy generation in nanofluids. The book also contains the latest advancements, innovations, methodologies, and research on the subject. Presented in 16 chapters, the text: Discusses the possible mechanisms of thermal conduction enhancement Reviews the results of a theoretical analysis determining the anomalous enhancement of heat transfer in nanofluid flow Assesses different approaches modeling the thermal conductivity enhancement of nanofluids Focuses on experimental methodologies used to determine the thermophysical properties of nanofluids Analyzes forced convection heat transfer in nanofluids in both laminar and turbulent convection Highlights the application of nanofluids in heat exchangers and microchannels Discusses the utilization of nanofluids in porous media Introduces the boiling of nanofluids Treats pool and flow boiling by analyzing the effect of nanoparticles on these complex phenomena Indicates future research directions to further develop this area of knowledge, and more Intended as a reference for researchers and engineers working in the field, Heat Transfer Enhancement with Nanofluids presents advanced topics that detail the strengths, weaknesses, and potential future developments in nanofluids heat transfer.

Membrane Distillation-Mohamed Khayet Souhaimi 2011-08-12 Modern membrane engineering is critical to the development of process-intensification strategies and to the stimulation of industrial growth. Membrane Distillation (MD) is a broad reference that covers specific information on membranes available and methods for MD membrane preparation and characterization. The book offers an introduction to the terminology and fundamental concepts as well as a historical review of MD development. Commercial membranes used in MD as well as laboratory-made membranes, including emerging membranes, are described in detail and illustrated by a number of clear and instructive schematic drawings and images. A comprehensive review on the development of MD membranes, MD modules, MD membrane characterization, MD configurations, applications in different areas and theoretical models Introduction to the terminology and fundamental concepts associated with MD as well as an historical review of MD development Description of commercial membranes used in MD as well as laboratory-made membranes, including emerging membranes

Fast Electrochemical Impedance Spectroscopy-Pavle Bošković 2017-05-21 This book offers a review of electrochemical impedance spectroscopy (EIS) and its application in online condition monitoring of electrochemical devices, focusing on the practicalities of performing fast and accurate EIS. The first part of the book addresses the theoretical aspects of the fast EIS technique, including stochastic excitation signals, time-frequency signal processing, and statistical analysis of impedance measurements. The second part presents an application of the fast EIS technique for condition monitoring and evaluates the performance of the proposed fast EIS methodology in three different types of electrochemical devices: a Li-ion battery, a Li-S cell, and a polymer electrolyte membrane (PEM) fuel cell. Uniquely, in addition to theoretical aspects the book provides practical guidelines for implementation, commissioning, and exploitation of EIS for condition monitoring of electrochemical devices, making it a valuable resource for practicing engineers as well as researchers.

Advances in Industrial Automation and Smart Manufacturing-A. Arockiarajan

Gas Turbine Heat Transfer and Cooling Technology, Second Edition-Je-Chin Han 2012-11-27 A comprehensive reference for engineers and researchers, Gas Turbine Heat Transfer and Cooling Technology, Second Edition has been completely revised and updated to reflect advances in the field made during the past ten years. The second edition retains the format that made the first edition so popular and adds new information mainly based on selected published papers in the open literature. See What's New in the Second Edition: State-of-the-art cooling technologies such as advanced turbine blade film cooling and internal cooling Modern experimental methods for gas turbine heat transfer and cooling research Advanced computational models for gas turbine heat transfer and cooling performance predictions Suggestions for future research in this critical technology The book discusses the need for turbine cooling, gas turbine heat-transfer problems, and cooling methodology and covers turbine rotor and stator heat-transfer issues, including endwall and blade tip regions under engine conditions, as well as under simulated engine conditions. It then examines turbine rotor and stator blade film cooling and discusses the unsteady high free-stream turbulence effect on simulated cascade airfoils. From here, the book explores impingement cooling, rib-turbulent cooling, pin-fin cooling, and compound and new cooling techniques. It also highlights the effect of rotation on rotor coolant passage heat transfer. Coverage of experimental methods includes heat-transfer and mass-transfer techniques, liquid crystal thermography, optical techniques, as well as flow and thermal measurement techniques. The book concludes with discussions of governing equations and turbulence models and their applications for predicting turbine blade heat transfer and film cooling, and turbine blade internal cooling.

Aerogels Handbook-Michel Andre Aegerter 2011-06-10 Aerogels are the lightest solids known. Up to 1000 times lighter than glass and with a density as low as only four times that of air, they show very high thermal, electrical and acoustic insulation values and hold many entries in Guinness World Records. Originally based on silica, R&D efforts have extended this class of materials to non-silicate inorganic oxides, natural and synthetic organic polymers, carbon, metal and ceramic materials, etc. Composite systems involving polymer-crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility. Even more exotic aerogels based on clays, chalcogenides, phosphides, quantum dots, and biopolymers such as chitosan are opening new applications for the construction, transportation, energy, defense and healthcare industries. Applications in electronics, chemistry, mechanics, engineering, energy production and storage, sensors, medicine, nanotechnology, military and aerospace, oil and gas recovery, thermal insulation and household uses are being developed with an estimated annual market growth rate of around 70% until 2015. The Aerogels Handbook summarizes state-of-the-art developments and processing of inorganic, organic, and composite aerogels, including the most important methods of synthesis, characterization as well as their typical applications and their possible market impact. Readers will find an exhaustive overview of all aerogel materials known today, their fabrication, upscaling aspects, physical and chemical properties, and most recent advances towards applications and commercial products, some of which are commercially available today. Key Features: •Edited and written by recognized worldwide leaders in the field •Appeals to a broad audience of materials scientists, chemists, and engineers in academic research and industrial R&D •Covers inorganic, organic, and composite aerogels •Describes military, aerospace, building industry, household, environmental, energy, and biomedical applications among others

Wet Granular Matter-Stephan Herminghaus 2013-08-29 This is a monograph written for the young and advanced researcher who is entering the field of wet granular matter and keen to understand the basic physical principles governing this state of soft matter. It treats wet granulates as an instance of a ternary system, consisting of the grains, a primary, and a secondary fluid. After addressing wetting phenomena in general and outlining the basic facts on dry granular systems, a chapter on basic mechanisms and their effects is dedicated to every region of the ternary phase diagram. Effects of grain shape and roughness are considered as well. Rather than addressing engineering aspects such as existing books on this topic do, the book aims to provide a generalized framework suitable for those who want to understand these systems on a more fundamental basis. Contents:IntroductionGrains and Granular FluidsWettingCapillary ForcesWet Granular GasesWet Granular PilesSpecial Topics Readership: For the young and advanced researcher entering the field of wet granular matter. Keywords:Granular Matter;Wetting;Phase Transitions;Collective Phenomena;Rheology;GeoscienceKey Features:Provides a unique, fundamental science approach to an important material class which has formerly been treated solely as an engineering topicAddresses a broad readership, from advanced physics students to application-oriented engineersProvides a unified view of aspects treated separately so far

Flow Resistance: A Design Guide for Engineers-I.E. Idelchik 2017-08-25 A sourcebook offering an up-to-date perspective on a variety of topics and using practical, applications-oriented data necessary for the design and evaluation of internal fluid system pressure losses. It has been prepared for the practicing engineer who understands fluid-flow fundamentals.

Rubber Products Manufacturing Technology-AnilK. Bhowmick 2018-10-03 Provides authoritative coverage of compounding, mixing, calendaring, extrusion, vulcanization, rubber bonding, computer-aided design and manufacturing, automation and control using microprocessors, just-in-time technology and rubber plant waste disposal.

The Kindness Revolution-Edward Horrell 2006 Despite years of focus on the importance of customer service, most businesses still have a lot to learn. Too many merely tweak a script, roll out a new offer, then disappear from the scene, leaving their frontline staff - often underpaid and badly overworked - to expertly, cheerfully handle all the real-life encounters with real-life customers who can make or break a company. That's no way to run a business, says customer service expert Ed Horrell. If you treat your frontline employees with indifference or disregard, you can expect them to treat your customers with indifference - and you can then expect to have indifferent customers who will drop you for the next best thing without a murmur of regret. Combining extensive research with inspiring real-life examples from companies known for their outstanding customer service - such as L.L.Bean, Chick-fil-A, Nordstrom, Mrs. Fields, St. Jude Children's Research Center, The Ritz-Carlton, FedEx, and more - Horrell explains in The Kindness Revolution that providing exceptional, compassionate customer service can only happen when you build a deep and lasting relationship with your employees. And it is kindness, says Horrell, that most characterizes that relationship. For organizations large and small, of any size or industry, The Kindness Revolution is a resounding wake-up call to change the way your company thinks about its employees, and to practice the basic values of dignity, respect, courtesy, and kindness from top to bottom throughout your organization. The way you treat your employees will be the way they treat your customers. Follow the wise advice and insightful examples in The Kindness Revolution, and experience the enormous payback in loyal customers, a more prosperous company - and a better way of life.

Fuel Cells: Technologies for Fuel Processing-Dushyant Shekhawat 2011-03-18 Fuel Cells: Technologies for Fuel Processing provides an overview of the most important aspects of fuel reforming to the generally interested reader, researcher, technologist, teacher, student, or engineer. The topics covered include all aspects of fuel reforming: fundamental chemistry, different modes of reforming, catalysts, catalyst deactivation, fuel desulfurization, reaction engineering, novel reforming concepts, thermodynamics, heat and mass transfer issues, system design, and recent research and development. While no attempt is made to describe the fuel cell itself, there is sufficient description of the fuel cell to show how it affects the fuel reformer. By focusing on the fundamentals, this book aims to be a source of information now and in the future. By avoiding time-sensitive information/analysis (e.g., economics) it serves as a single source of information for scientists and engineers in fuel processing technology. The material is presented in such a way that this book will serve as a reference for graduate level courses, fuel cell developers, and fuel cell researchers. Chapters written by experts in each area Extensive bibliography supporting each chapter Detailed index Up-to-date diagrams and full colour illustrations

The Unstoppable Startup-Uri Adoni 2020-09-08 THE BOLD SECRET TO SUCCESSFUL STARTUPS Veteran venture capitalist Uri Adoni shares the secrets to Israel's incredible track record of success in this new guide that will help make any startup unstoppable. More than half of all startups fail—often during the crucial early stages of development when they need to prove their viability on a limited budget. But when it comes to startup success, one country stands out: Israel. Even though it is a relatively small country with a population of just over 9 million inhabitants, Israel has one of the highest concentrations of startups in the world, has the highest venture capital per capita, is one of the top countries in terms of number of companies listed on NASDAQ, and is well recognized as a global leader in research and development. In The Unstoppable Startup, Uri Adoni goes behind the scenes to explain the principles and practices that can make any startup, anywhere in the world, become an unstoppable one. Packed with insider accounts from leaders who have realized bold visions, The Unstoppable Startup distills Israeli chutzpah into six operational rules that will help you to: Build an unstoppable team; Foresee the future and innovate to meet its demands; Manage your funding and partnerships through all phases of growth; Dominate the market category you are after or create a new one; Build and manage an early stage investment vehicle; and Build and grow a healthy high-tech ecosystem. Far from mere conjecture, Adoni implemented these practices throughout his more than 12 years as a venture capitalist for one of Israel's most successful venture funds, and he continues to utilize these same proven startup strategies today in metropolitan areas in the US.

Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results (rev. Ed.)-Barry N. Taylor 2009-11 Results of measurements and conclusions derived from them constitute much of the technical information produced by the National Institute of Standards and Technology (NIST). In July 1992 the Director of NIST appointed an Ad Hoc Committee on Uncertainty Statements and charged it with recommending a policy on this important topic. The Committee concluded that the CIPM approach could be used to provide quantitative expression of measurement that would satisfy NIST's customers' requirements. NIST initially published a Technical Note on this issue in Jan. 1993. This 1994 edition addresses the most important questions raised by recipients concerning some of the points it addressed and some it did not. Illustrations.

Heat Transfer Handbook-Adrian Bejan 2003-06-30 Chapters contributed by thirty world-renown experts. * Covers all aspects of heat transfer, including micro-scale and heat transfer in electronic equipment. * An associated Web site offers computer formulations on thermophysical properties that provide the most up-to-date values.

Unit Test Frameworks-Paul Hamill 2004 Most people who write software have at least some experience with unit testing-even if they don't call it that. If you have ever written a few lines of throwaway code just to try something out, you've built a unit test. On the other end of the software spectrum, many large-scale applications have huge batteries of test cases that are repeatedly run and added to throughout the development process. What are unit test frameworks and how are they used? Simply stated, they are software tools to support writing and running unit tests, including a foundation on which to build tests and the functionality to execute the tests and report their results. They are not solely tools for testing; they can also be used as development tools on a par with preprocessors and debuggers. Unit test frameworks can contribute to almost every stage of software development and are key tools for doing Agile Development and building big-free code. Unit Test Frameworks covers the usage, philosophy, and architecture of unit test frameworks. Tutorials and example code are platform-independent and compatible with Windows, Mac OS X, Unix, and Linux. The companion CD includes complete versions of JUnit, CppUnit, NUnit, and XMLUnit, as well as the complete set of code examples.

The Role of Exergy in Energy and the Environment-Sandro Nižetić 2018-07-30 This book is devoted to the analysis and applications of energy, exergy, and environmental issues in all sectors of the economy, including industrial processes, transportation, buildings, and services. Energy sources and technologies considered are hydrocarbons, wind and solar energy, fuel cells, as well as thermal and electrical storage. This book provides theoretical insights, along with state-of-the-art case studies and examples and will appeal to the academic community, but also to energy and environmental professionals and decision makers.

Handbook of Genetic Programming Applications-Amir H. Gandomi 2015-11-06 This contributed volume, written by leading international researchers, reviews the latest developments of genetic programming (GP) and its key applications in solving current real world problems, such as energy conversion and management, financial analysis, engineering modeling and design, and software engineering, to name a few. Inspired by natural evolution, the use of GP has expanded significantly in the last decade in almost every area of science and engineering. Exploring applications in a variety of fields, the information in this volume can help optimize computer programs throughout the sciences. Taking a hands-on approach, this book provides an invaluable reference to practitioners, providing the necessary details required for a successful application of GP and its branches to challenging problems ranging from drought prediction to trading volatility. It also demonstrates the evolution of GP through major developments in GP studies and applications. It is suitable for advanced students who wish to use relevant book chapters as a basis to pursue further research in these areas, as well as experienced practitioners looking to apply GP to new areas. The book also offers valuable supplementary material for design courses and computation in engineering.

Bioinspired Engineering of Thermal Materials-Tao Deng 2018-06-22 A comprehensive overview and summary of recent achievements and the latest trends in bioinspired thermal materials. Following an introduction to different thermal materials and their effective heat transfer to other materials, the text discusses heat detection materials that are inspired by biological systems, such as fire beetles and butterflies. There then follow descriptions of materials with thermal management functionality, including those for evaporation and condensation, heat transfer and thermal insulation materials, as modeled on snake skins, polar bears and fire-resistant trees. A discussion of thermoresponsive materials with thermally switchable surfaces and controllable nanochannels as well as those with high thermal conductivity and piezoelectric sensors is rounded off by a look toward future trends in the bioinspired engineering of thermal materials. Straightforward and well structured, this is an essential reference for newcomers as well as experienced researchers in this exciting field.

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