

Werkstoff Und Produktionstechnik Mit Mathcad Modellierung Und Simulation In Anwendungsbeispielen German Edition

The job of any reservoir engineer is to maximize production from a field to obtain the best economic return. To do this, the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of future development and production that will maximize the profit. Fluid flow, rock properties, water and gas coning, and relative permeability are only a few of the concepts that a reservoir engineer must understand to do the job right, and some of the tools of the trade are water influx calculations, lab tests of reservoir fluids, and oil and gas performance calculations. Two new chapters have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry: Principles of Waterflooding, Vapor-Liquid Phase Equilibria.

This book originally appeared in German in 1974, under the title "Bergschadenkunde" (mining subsidence engineering), and then in Russian in 1978, published by Nedra of Moscow. When the German edition was almost out of print, Springer-Verlag decided to bring out a new edition, this time in English. For this English version the text has been thoroughly revised, enlarged, and supplemented by over 100 new figures. The book deals with the current state of international knowledge on strata and ground movement over mine workings, with its damaging effects on mine shafts and the land surface, and with measures for regulating mining damage in law and reducing it in practice. Discussion begins with the mine excavation

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underground - the cause - and ends with the damage to surface structure- the effect. Methods of roof control, including the subject of rock bursts, are not discussed, since that is a field concerned more with the safety of underground workings than with minimizing damage at the surface. Of the 500 literature references in the German edition, only the more important for an international readership have been retained, but no value judgement on the many publications not mentioned should be read into this. The book is principally intended as a working aid for the mine surveyor, the mining engineer, the architect, and the civil engineer. For the student and the post-graduate researcher, it offers a summary and guide to this whole field of knowledge.

Agglomeration is integral to the processes of modification of powders, production of composites and creation of new materials which are required in pharmaceuticals, foods, chemicals, fertilizers and agrochemicals, minerals, ceramics, metallurgy and all material producing industries. The binding mechanisms and the particle behavior as well as the characteristics of the processes and the resulting agglomerates are the same whether they are occurring in the 'ultra-clean' pharmaceutical or food industries or in 'dirty' minerals or waste processing plants. The book introduces the interdisciplinary approach to the development of new concepts and the solution of problems. It is a complete and up-to-date practical guide describing the various agglomeration phenomena and industrial techniques for size enlargement. In addition to introducing the properties of agglomerates and the characteristics of the different methods, descriptions of the machinery and discussions of specific equipment features are the main topics. The detailed evaluation of the subject is based on the authors experience as student, researcher, teacher, developer, designer, vendor, and user as well as

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expert and consultant in the field of agglomeration, its technologies and products, and is complemented by the know-how of colleagues who are active in specific areas and information from vendors. It is intended for everybody working in industries that process and handle particulate solids as it aims to help understand and control unwanted agglomeration as well as use, improve, and develop methods for the beneficial size enlargement by agglomeration. When an innovation is inspired by design, it transcends technology and utility. The design delights the user, seamlessly integrating the physical object, a service, and its use into something whole. A design-inspired innovation is so simple that it becomes an extension of the user. It creates meaning and a new language. Design-Inspired Innovation takes a unique look at the intersection between design and innovation, and explores the novel ways in which designers are contributing to the development of products and services. The book's scope is international, with emphasis on design activities in Boston, England, Sweden, and Milan. Through a rich variety of cases and cultural prisms, the book extends the traditional design viewpoint and stretches the context of industrial design to question — and answer — what design is really all about. It gives readers tools for inspiration, and shows how design can change language and even create human possibilities.

Überdurchschnittlich viele Studierende in den ingenieurwissenschaftlichen Fächern brechen ihr Studium ab, am Arbeitsmarkt sind Ingenieure dagegen Mangelware. Umso lohnender ist da die Investition in eine zeitgemäße Didaktik. Unter der Berücksichtigung der zunehmenden Komplexität durch die Digitalisierung in den Ingenieurwissenschaften und am Arbeitsplatz zeigt das Buch, wie Lehrkräfte die Inhalte des Ingenieurstudiums und der technischen Lehre handlungsorientiert vermitteln können. Das Buch ist in zwei Teile gegliedert. Im ersten Teil

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präsentieren die Autoren die didaktischen Grundlagen. Sie erläutern grundlegende pädagogische Ansätze wie Kompetenz- und Handlungsorientierung im Unterricht und die Bedeutung von Lehr- und Lernzielen mit speziellem Fokus auf der Didaktik technischer Fächer. Daneben verknüpfen sie die theoretischen Grundlagen wichtiger technischer Fachgebiete mit den praktischen Anwendungen der unterschiedlichen Branchen. Der zweite Teil bietet einen didaktisch durchdachten Lehr- und Übungskatalog mit einem breiten Spektrum an Methoden, der zur innovativen Lehrstoffvermittlung anregt. Am Beispiel der ingenieurwissenschaftlichen Grundlagenfächer bereiten die Autoren die technischen Inhalte fachlich auf und skizzieren auf der Basis dieses Grundlagenwissens einen möglichen Kompetenzerwerb. Mit Hilfe dieses Katalogs können die Leser adäquate Lehr- und Lernmethoden auswählen. Mit ihrem Buch wollen die Autoren Lust machen auf eine neue, innovative Art der technischen Lehre. Ein handlungsorientiertes pädagogisches Handbuch für Dozenten an technischen Universitäten, Hochschulen und Technischen Fachschulen, das ergänzend zur technischen Fachliteratur eingesetzt werden kann.

In *Beginning Arduino*, you will learn all about the popular Arduino microcontroller by working your way through an amazing set of 50 cool projects. You'll progress from a complete beginner regarding Arduino programming and electronics knowledge to intermediate skills and the confidence to create your own amazing Arduino projects. Absolutely no experience in programming or electronics required! Rather than requiring you to wade through pages of theory before you start making things, this book has a hands-on approach. You will dive into making projects right from the start, learning how to use various electronic components and how to program the Arduino to control or communicate with those components. Each project is

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designed to build upon the knowledge learned in earlier projects and to further your knowledge in programming as well as skills with electronics. By the end of the book you will be able create your own projects confidently and with creativity. Please note: the print version of this title is black & white; the eBook is full color. You can download the color diagrams in the book from <http://www.apress.com/9781430232407>

This volume is an invaluable resource for those involved in the identification, behaviour and influence of non-metallic inclusions in steel.

This innovative collection of studies by international youth researchers, critically addresses questions of 'global' youth, incorporating material from regions as diverse as Sydney, Tehran, Dakar and Manila, and advancing our knowledge about young people around the globe. Exploring specific local youth cultures whilst mediating global mass media and consumption trends, this book traces subaltern 'youth landscapes' and tells subaltern 'youth stories' previously invisible in predominantly western youth cultural studies and theorizing. The chapters here serve as a refutation of the colonialist discourse of cultural globalization. Showcasing previously unpublished youth research from outside the English-speaking world alongside the work of well-known researchers such as Huq and Holden, these accounts of youth cultural practices highlight much that is predictably different, but also a great deal of common ground. This book goes inside creative cultural formation of youth identities to critically examine the

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global in the local. Bringing together an internationally diverse group of researchers, who describe and analyze youth cultures throughout Europe, the Americas, Asia, Africa and Oceania, this volume presents the first comprehensive review of global youth cultures, practices and identities, and as such is a valuable read for students and researchers of youth studies, cultural studies and sociology.

Almost all welding technology depends upon the use of concentrated energy sources to fuse or soften the material locally at the joint, before such energy can be diffused or dispersed elsewhere. Although comprehensive treatments of transient heat flow as a controlling influence have been developed progressively and published over the past forty years, the task of uniting the results compactly within a textbook has become increasingly formidable. With the comparative scarcity of such works, welding engineers have been denied the full use of powerful design analysis tools. During the past decade Dr Radaj has prepared to fulfil this need, working from a rich experience as pioneer researcher and teacher, co-operator with Professor Argyris at Stuttgart University in developing the finite element method for stress analysis of aircraft and power plant structures, and more recently as expert consultant on these and automotive structures at Daimler Benz. His book appeared in 1988 in the German language,

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and this updated English language edition will significantly increase the availability of the work.

In the personal story of internationally acclaimed drummer Yaya Diallo we see the power of music as a sacred, healing force in West African culture.

With a focus on actual industrial processes, e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethene, it encourages the reader to think “out of the box” and invent and develop novel unit operations and processes.

Reflecting today’s emphasis on sustainability, this edition contains new coverage of biomass as an alternative to fossil fuels, and process intensification. The second edition includes: New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries, e.g. synthesis loop designs, Sasol I Plant, Kaminsky catalysts, production of Ibuprofen, click chemistry, ammonia synthesis, fluid catalytic cracking Questions throughout to stimulate debate and keep students awake! Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology, Second Edition is a comprehensive introduction, linking the fundamental theory and concepts to the applied nature of the subject. It will be invaluable to students of chemical engineering,

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biotechnology and industrial chemistry, as well as practising chemical engineers. From reviews of the first edition: “The authors have blended process technology, chemistry and thermodynamics in an elegant manner... Overall this is a welcome addition to books on chemical technology.” – The Chemist “Impressively wide-ranging and comprehensive... an excellent textbook for students, with a combination of fundamental knowledge and technology.” – Chemistry in Britain (now Chemistry World)

This first volume in the International Technology Education Series offers a unique, worldwide collection of national surveys into the developments of Technology Education in the past two decades.

In die neue Auflage wurden aktuelle Bezeichnungen und Fachbegriffe aufgenommen und neuere Produktionsverfahren integriert. Gründlich überarbeitet wurden die Abschnitte zum Löten, Aufnahme der neuesten Normen, das Thermische Trennen sowie die Umformtechnik. Ergänzt wurden mehrere Konstruktionsbeispiele sowie ein Abschnitt zum Mikroschleifen mit neuartigen CVD-beschichteten Diamant-Schleifwerkzeugen. Übersichtlichkeit und klare Gliederung des Buches sowie die stets gut verständliche Aufbereitung der Darstellungen und Erläuterungen werden vielfach gelobt.

Selected, peer reviewed papers from the 7th International Conference on

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Physical and Numerical Simulation of Materials Processing (ICPNS 13), June 16-19, 2013, Oulu, Finland

This book addresses the design of emerging conceptual tools, technologies and systems including novel synthetic parts, devices, circuits, oscillators, biological gates, and small regulatory RNAs (riboregulators and riboswitches), which serve as versatile control elements for regulating gene expression. Synthetic biology, a rapidly growing field that involves the application of engineering principles in biology, is now being used to develop novel systems for a wide range of applications including diagnostics, cell reprogramming, therapeutics, enzymes, vaccines, biomaterials, biofuels, fine chemicals and many more. The book subsequently summarizes recent developments in technologies for assembling synthetic genomes, minimal genomes, synthetic biology toolboxes, CRISPR-Cas systems, cell-free protein synthesis systems and microfluidics. Accordingly, it offers a valuable resource not only for beginners in synthetic biology, but also for researchers, students, scientists, clinicians, stakeholders and policymakers interested in the potential held by synthetic biology.

An invaluable reference for product designers to use in choosing the optimum material for an engineering design is provided through this comprehensive introduction to the methods of selection methodology.

Mathematical modelling of weld phenomena is an expanding new field of research in which numerical analysis, in conjunction with appropriate experimental studies, is used to make predictions of microstructural and property changes in welds, including changes in states of stress.

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Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript. First comprehensive treatment of ANSI and ISO standards for the C Library. Includes practical advice on using all 15 headers of the Library and covers the concept design and utilization of libraries. Contains complete codes of C Library and is the companion volume to C Programming Language. An independent consultant, author Plauger is one of the world's leading experts on C and the C Library.

Finally, a great introduction to ANCI C++ for working programmers! Lippmann--who worked under the leadership of Bjarne Stroustrup, wrote the classic "C++ Primer", and now works as a C++ programmer at DreamWorks--teaches programmers exactly what they need to know to get immediate results. From start to finish, each concept and technique is presented through real programs designed to solve the problems C++ programmers are most likely to encounter. This book features papers focusing on the implementation of new and future technologies, which were presented at the International Conference on New Technologies, Development and Application, held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo

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on 27th–29th June 2019. It covers a wide range of future technologies and technical disciplines, including complex systems such as Industry 4.0; robotics; mechatronics systems; automation; manufacturing; cyber-physical and autonomous systems; sensors; networks; control, energy, automotive and biological systems; vehicular networking and connected vehicles; effectiveness and logistics systems, smart grids, as well as nonlinear, power, social and economic systems. We are currently experiencing the Fourth Industrial Revolution “Industry 4.0”, and its implementation will improve many aspects of human life in all segments, and lead to changes in business paradigms and production models. Further, new business methods are emerging, transforming production systems, transport, delivery, and consumption, which need to be monitored and implemented by every company involved in the global market. Nobel Peace Prize Laureate Aung San Suu Kyi—known to the world as an icon for democracy and nonviolent dissent in oppressed Burma, and to her followers as simply “The Lady”—has recently returned to international headlines. Now, this major new biography offers essential reading at a moment when Burma, after decades of stagnation, is once again in flux. Suu Kyi’s remarkable life begins with that of her father, Aung San. The architect of Burma’s independence, he was assassinated when she was only two. Suu Kyi grew up in India (where her mother served as ambassador), studied at Oxford, and worked for three years at the UN in New York. In 1972, she married Michael Aris, a British scholar. They had two sons, and for several years she lived as a self-described “housewife”—but she never forgot that she was the daughter of Burma’s national hero. In April 1988, Suu Kyi returned to Burma to nurse her sick

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mother. Within six months, she was leading the largest popular revolt in the country's history. She was put under house arrest by the regime, but her party won a landslide victory in the 1990 elections, which the regime refused to recognize. In 1991, still under arrest, she received the Nobel Peace Prize. Altogether, she has spent over fifteen years in detention and narrowly escaped assassination twice. Peter Popham distills five years of research—including covert trips to Burma, meetings with Suu Kyi and her friends and family, and extracts from the unpublished diaries of her co-campaigner and former confidante Ma Thanegi—into this vivid portrait of Aung San Suu Kyi, illuminating her public successes and private sorrows, her intellect and enduring sense of humor, her commitment to peaceful revolution, and the extreme price she has paid for it.

Original Scholarly Monograph

In *Performance and Politics in Tanzania*, Laura Edmondson examines how politics, social values, and gender are expressed on stage. Now a disappearing tradition, Tanzanian popular theatre integrates comic sketches, acrobatics, melodrama, song, and dance to produce lively commentaries on what it means to be Tanzanian. These dynamic shows invite improvisation and spontaneous and raucous audience participation as they explore popular sentiments. Edmondson asserts that these performances overturn the boundary between official and popular art and offer a new way of thinking about African popular culture. She discusses how the blurring of state agendas and local desires presents a charged environment for the exploration of

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Tanzanian political and social realities: What is the meaning of democracy and who gets to define it? Who is in power, and how is power exposed or concealed? What is the role of tradition in a postsocialist state? How will the future of the nation be negotiated? This engaging book provides important insight into the complexity of popular forms of expression during a time of political and social change in East Africa.

Durch die gezielte Strukturierung von wärmeübertragenden Oberflächen, wie beispielsweise durch Dellen oder Rippen, kann die örtliche Turbulenz und damit die thermische Durchmischung gesteigert werden. Dies kann die Effizienz von Wärmeübertragern oder Bauteilkühlsystemen erheblich erhöhen. Derartige Oberflächenstrukturierungen begünstigen jedoch das Partikelfouling, daher die Ablagerung suspendierter Partikel, wie z.B. Sand, Schlamm oder Korrosionsprodukte. Gegenstand dieser Arbeit ist die Entwicklung eines universellen, numerischen CFD-Verfahrens zur Vorhersage des partikulären Foulings auf strukturierten Oberflächen, speziell Dellenoberflächen. Das entwickelte Verfahren basiert auf einer Kombination des Lagrangian-Particle-Trackings zur Beschreibung der dispersen Phase (Foulingpartikel), sowie räumlich und zeitlich aufgelöster Large-Eddy Simulation für die Berechnung der kontinuierlichen Phasen (Trägerfluid). Dieses Vorgehen ermöglicht nicht nur die Auswertung der infolge der Partikelablagerungen verminderten thermohydraulischen Effizienz, sondern auch die Untersuchung der Wechselwirkungen zwischen turbulenten Strömungsstrukturen und dem partikulärem Fouling. Dadurch

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kann gezeigt werden, dass die Verwendung von sphärischen Dellen als Oberflächenstrukturen nicht nur aus thermo-hydraulischer Sicht die optimale Wahl darstellt, sondern auch eine substantielle Verminderung des Partikelfouling begünstigt. The application of structured heat transfer surfaces, such as dimples or ribs, increase the local turbulence and thus thermal mixing. This can improve the efficiency of heat exchangers or cooling systems significantly. However, structured surfaces are known to promote particulate fouling, hence the unwanted accumulation and deposition of suspended particles (e.g., silt, sludge or iron oxide). The scope of this work is the development of a universal numerical CFD method for the prediction of particulate fouling, especially on dimpled surfaces. The proposed approach is based on a combination of the Lagrangian point-particle tracking for the description of the disperse phase (fouling particles), and spatially and temporally resolved large-eddy simulations for the calculation of the continuous phase (carrier fluid). This approach allows not only the evaluation of the reduced thermo-hydraulic efficiency due to particle deposition, but also the investigation of the interaction between turbulent flow structures and the particulate fouling. It can be shown that the usage of spherical dimples as surface structures is not only the optimal choice from a thermo-hydraulic point of view, but also favors a substantial reduction of particulate fouling.

Werkstoff- und Produktionstechnik mit Mathcad Modellierung und Simulation in Anwendungsbeispielen Springer-Verlag

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60 novel approaches in metal forming are presented and explained in detail. Contributions from acknowledged international scientists representing the state-of-art in metal forming open a general view on recent results and a clear view on demands for new research initiatives.

"SCIENCE AND TECHNOLOGY OF 'THE UNDERCOOLED MELT" This title was chosen as the topical headline of the Advanced Research Workshop (ARW) from March 17 to 22 1985, held at the Castle of Theuern. The usual term "Rapid Solidification" is an overlapping description. Due to the fact that nucleation is so eminently important for the undercooling of a melt and this, in turn, is an important characteristic of rapid solidification, undercooling plays an essential role in "rapid solidification." The undercooled melt has caused an "accelerated evolution" (if not a revolution) in materials science during the last decade. Several rather exciting concepts with interesting potential for novel applications are being pursued presently in various laboratories and companies. They concern not only new processes and hardware developments, but also present challenging perspectives for ventures, including the founding of new companies; or they promise growth possibilities with established larger and smaller industrial establishments.

Die Kopplung von metallkundlichem und produktionstechnischem Fachwissen mit numerischen Methoden zur Lösung von praktischen Aufgabenstellungen ist dem Autor hervorragend gelungen. Der Leser findet die vollständige Kette von

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der technisch-wissenschaftlichen Problemstellung über die Generierung des Modellansatzes, die Auswahl geeigneter numerischer Methoden bis zur Lösung der Aufgabenstellung. Die Lösungsansätze aus den Fachgebieten Werkstoffkunde, Schweißtechnik, Umformtechnik usw. sind einfach nachzuvollziehen. Darüber hinaus verweist der Autor auf große in der Praxis angewendete Finite-Elemente-Programme. Das Werk schließt die Lücke zwischen dem theoretischen Lehrbuchwissen und den in der Praxis geforderten Kenntnissen. Mit Hilfe der 160 beliebig modifizierbaren Anwendungsbeispiele auf der CD-ROM lässt sich der Stoff vertiefen.

This practical guide presents a comprehensive account of solidification processes in metals and alloys and describes the manner in which cast structure arises. Reviews the principle features of solidification theory in an accessible and easily understood manner. Relates the solidification and cast structure process to different industrial processes such as conventional casting, continuous casting, welding, and rapid solidification. Provides concise descriptions of structure formation in cast steel, cast iron and aluminum. Includes treatment of cast ceramics, glass, metal-nonmetal structures, rapid solidification, welding, and continuous casting processes.

"Turkdogan's book is a welcome, excellent addition to the existing literature on

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the science of steelmaking. Written by a recognised expert in the field who has participated for many years in the research effort at US Steel, it covers concisely, clearly, and thoroughly a variety of pertinent topics." TZ Kattamis, University of Connecticut Gives engineers, research scientists and graduate students a clear understanding of the operation and control of the pyrometallurgical process. It will also be useful for technical training courses given to steel plant engineers and plant operators.

"With a balanced approach that covers product and service development, readers receive a broad and realistic idea of development issues in each major sector of our economy. With its emphasis on the experimental and exploratory aspects of product and service development, this book stresses the importance of maintaining a fresh and innovative perspective in design and development. The case studies, readings, and exercises are integrated into three pedagogically consistent modules that are supported through an array of teaching tools. This supplementary material (module notes, teaching notes & plans, and presentation material) is available to all adopting instructors."--BOOK JACKET.

Since its founding in 1964, the United Republic of Tanzania has used music, dance, and other cultural productions as ways of imagining and legitimizing the new nation. Focusing on the politics surrounding Swahili musical performance,

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Kelly Askew demonstrates the crucial role of popular culture in Tanzania's colonial and postcolonial history. As Askew shows, the genres of ngoma (traditional dance), dansi (urban jazz), and taarab (sung Swahili poetry) have played prominent parts in official articulations of "Tanzanian National Culture" over the years. Drawing on over a decade of research, including extensive experience as a taarab and dansi performer, Askew explores the intimate relations among musical practice, political ideology, and economic change. She reveals the processes and agents involved in the creation of Tanzania's national culture, from government elites to local musicians, poets, wedding participants, and traffic police. Throughout, Askew focuses on performance itself—musical and otherwise—as key to understanding both nation-building and interpersonal power dynamics.

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