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Collections of peer-reviewed papers are always excellent sources of knowledge and new ideas for researchers working in both universities and industry. The present collection, in particular, provides interdisciplinary and international resources; thus encouraging the close cooperation of materials scientists, and manufacturing and computer engineers and promoting the diffusion of research results, and technology transfer, in all areas of Sheet Metal Processing and Characterization. The main focus of this special volume is on innovation in forming processes, high-strength materials and joining technologies. The 72 papers are grouped into chapters on: Hydroforming, Joining, Manufacturing Systems, Micro Technologies, Quality/Surface Conditioning, Tooling, Stamping, Tube-Forming, Incremental Forming, Modelling, Materials and Testing, Drawing, Bending, and Roll-Forming. The volume offers important and interesting insights into R & D issues concerning Sheet Metal Processing: indeed, all SheMet Proceedings provide a state-of-the-art guide to this dramatically important industrial field.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site

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Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use Overview of Industrial Process Automation, Second Edition, introduces the basics of philosophy, technology, terminology, and practices of modern automation systems through the presentation of updated examples, illustrations, case studies, and images. This updated edition adds new developments in the automation domain, and its reorganization of chapters and appendixes provides better continuity and seamless knowledge transfer. Manufacturing and chemical engineers involved in factory and process automation, and students studying industrial automation will find this book to be a great, comprehensive resource for further explanation and study. Presents a ready made reference that introduces all aspects of automation technology in a single place

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with day-to-day examples Provides a basic platform for the understanding of industry literature on automation products, systems, and solutions Contains a guided tour of the subject without the requirement of any previous knowledge on automation Includes new topics, such as factory and process automation, IT/OT Integration, ISA 95, Industry 4.0, IoT, etc., along with safety systems in process plants and machines

In response to a congressional request, GAO identified methods the Office of Personnel Management (OPM) could use to streamline the processing of civil service retirement documents and reduce the backlogs. GAO noted that OPM: (1) was not effectively using its automated equipment; and (2) did not assign and organize its personnel for maximum productivity. GAO found that OPM employees: (1) reviewed each retirement document several times more than necessary; (2) processed documents manually rather than by computerized systems; (3) unnecessarily processed documents at two locations; and (4) delayed processing applications from federal employees who wanted to make their retirement contributions early, resulting in a loss of income to the government.

This book provides basic information covering every aspect of iron and steel production and was originally a textbook for Soviet vocational schools, as well as a practical aid for workers engaged in the field.

This book provides an accessible way to learn about organic coatings and finishing. The coating materials are considered here from the angle of chemical reactions and

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mechanisms of film formation. The examples and exercises provided in here will also help the reader achieve technical insights into the subject and obtain a deep understanding of the principles underlying the technology. This book also provides the reader with the basic knowledge and skills required for handling mixtures. As rheological technology has been widely used in research papers for academic exchange and solving technical problems on organic coatings and finishing, this book collects and compiles a number of reference works on rheological technology, demonstrating how to use it in organic coatings and finishing.

Automation in Mining, Mineral and Metal Processing covers the proceedings of the Third International Federation of Automatic Control (IFAC) symposium. The book discusses techniques and methods of automatic control and of system analysis for use in mining, mineral, and metal processing industries. Comprised of 69 chapters, the text presents theories, applications, operations, and maintenance of automation systems in an industrial environment. The topics covered are also relevant in solving various issues in the mining, mineral, and metal processing industries, such as pollution, safety, energy efficiency, human resource, and materials through the implementation of an unmanned system. This book will be of great interest to professionals especially those who are contemplating the use of automated system.

Starting in the mid 1990s, the United States economy experienced an unprecedented upsurge in economic productivity. Rapid technological change in communications,

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computing, and information management continue to promise further gains in productivity, a phenomenon often referred to as the New Economy. To better understand this phenomenon, the National Academies Board on Science, Technology, and Economic Policy (STEP) has convened a series of workshops and commissioned papers on Measuring and Sustaining the New Economy. This major workshop, entitled Deconstructing the Computer, brought together leading industrialists and academic researchers to explore the contribution of the different components of computers to improved price-performance and quality of information systems. The objective was to help understand the sources of the remarkable growth of American productivity in the 1990s, the relative contributions of computers and their underlying components, and the evolution and future contributions of the technologies supporting this positive economic performance.

Written by eminent researchers and renown authors of numerous publications in the buckling structures field. \* Deals with experimental investigation in the industry. \* Covers the conventional and more unconventional methods for testing for a wide variety of structures. \* Various parameters which may influence the test results are systemically highlighted including, imperfections, boundary conditions, loading conditions as well as the effects of holes and cut-outs.

This two-volume set features selected articles from the Fifth Edition of Wiley's prestigious Kirk-Othmer Encyclopedia of Chemical Technology. This compact reference

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features the same breadth and quality of coverage found in the original, but with a focus on topics of particular interest to food technologists, chemists, chemical and process engineers, consultants, and researchers and educators in food and agricultural businesses, alcohol and beverage industries, and related fields.

The proceedings of the fourth ICMA in 2004 represent a huge contribution to research in this area. Everyone attending the conference was asked to submit their papers electronically which meant that 100 top quality papers from no less than 10 different countries contributed to the theme of the conference.

Have you ever wondered if you are really in control of your life? Or could it be that someone or something has been placed in front of a computer somewhere and is pushing buttons and sending messages to your brain? What really influences our daily decisions: friends, family, God, the government perhaps, or a dog? These are the questions Dr. Anthony Harding begins to ask himself shortly after arriving in San Diego. He's convinced that the only way his two daughters will ever overcome their mother's death and the stigma of her alcoholism and drug addiction and the only way to repair his own status as a dead-beat dad is to jump on a job offer that will move them as far away from Chicago's south side as possible. His expectations doesn't include being attracted to a pint-sized independent neighbor from Louisiana whose best friend seems to be a miniature chocolate poodle that appears to have a talent for making unusual things happen.

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This volume discusses the developments and automation in mining and in mineral and metal processing industries. Topics covered include the use of robot controlled tunnelling machines; mineral separation and processing techniques; gridding systems, and the design of plants to give an overview of these industries today.

Hardbound. Changing market conditions leading to increased competitiveness, higher quality control, reduced costs and greater capacity mean that the development and automation in mining and in mineral and metal processing is facing challenging times.

The Symposium reflects the growing need amongst mining and related industries to improve and develop their automated systems to tackle those new challenges. The papers provide essential information covering areas such as mining, electric furnaces, steel, blast furnaces, rolling and computer applications.

Contains the proceedings of the Association.

Thermal processes are key manufacturing steps in producing durable and useful products, with solidification, welding, heat treating, and surface engineering being primary steps. These papers represent the latest state-of-the-art in thermal process modeling. The breadth of topics covers the depth of the industry.

Primer on Flat Rolling is a fully revised second edition, and the outcome of over three decades of involvement with the rolling process. It is based on the author's yearly set of lectures, delivered to engineers and technologists working in the rolling metal industry. The essential and basic ideas involved in designing and analysis of the rolling process are presented. The book discusses and illustrates in detail the three components of flat rolling: the mill, the rolled

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metal, and their interface. New processes are also covered; flexible rolling and accumulative roll-bonding. The last chapter contains problems, with solutions that illustrate the complexities of flat rolling. New chapters include a study of hot rolling of aluminum, contributed by Prof. M. Wells; advanced applications of the finite element method, by Dr. Yuli Liu and by Dr. G. Krallics; roll design by Dr. J. B. Tiley and the history of the development of hot rolling mills, written by Mr. D. R. Adair and E. B. Intong. Engineers, technologists and students can all use this book to aid their planning and analysis of flat rolling processes. Provides clear descriptions for engineers and technologists working in steel mills Evaluates the predictive capabilities of mathematical models Assignments and their solutions are included within the text Contains 73 papers which discuss the latest developments in the important field of control applications, equipment and theory. Emphasis has been placed on applications, large distributed digital control systems, measurement systems, optimality, adaptivity, reliability and safety aspects. Major topics covered include: thermal processes and energy control; control in cement making; modelling and control of grinding mills; systems and equipment; steelmaking and continuous casting; theory; control and modelling in extraction metallurgy; on-line control of concentration and separation processes; measurement and analysis in mining and mineral processes; automation in coal mining; hot and cold rolling; and automation in mining. This book is your complete & comprehensive reference to understand over 700 automated manufacturing and application-oriented terms. This invaluable resource provides you with in-depth definitions for most major automation terms. Term definitions include background information, a discussion of today's state-of-the-art, and a summary of applications. Also, the cross-referencing directs you to additional information throughout.

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Thermal Process Modeling 2014: Proceedings from the Fifth International Conference on Thermal Process Modeling and Computer Simulation  
ASM International  
Systems Engineering for Business Process Change: New Directions is a collection of papers resulting from an EPSRC managed research programme set up to investigate the relationships between Legacy IT Systems and Business Processes. The papers contained in this volume report the results from the projects funded by the programme, which ran between 1997 and 2001. An earlier volume, published in 2000, reported interim results. Bringing together researchers from diverse backgrounds in Computer Science, Information Systems, Engineering and Business Schools, this book explores the problems experienced by IT-dependent businesses that have to implement changing business processes in the context of their investment in legacy systems. The book presents some of the solutions investigated through the collaborations set up within the research programme. Whether you are a researcher interested in the ideas that were generated by the research programme, or a user trying to understand the nature of the problems and their solutions, you cannot fail to be inspired by the writings contained in this volume.

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