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Digital Cities II: Computational and Sociological Approaches National Academies Press Integrated computational materials engineering (ICME) is an emerging discipline that

can accelerate materials development and unify design and manufacturing. Developing ICME is a grand challenge that could provide significant economic benefit. To help develop a strategy for development of this new technology area, DOE and DoD asked the NRC to explore its benefits and promises, including the benefits of a comprehensive ICME capability; to establish a strategy for development and maintenance of an ICME infrastructure, and to make recommendations about how best to meet these opportunities. This book provides a vision for ICME, a review of case studies and lessons learned, an analysis of technological barriers, and an evaluation of ways to overcome cultural and organizational challenges to develop the discipline.

Extreme Solar Particle Storms National Academies Press Today new ways of thinking about learning call for new ways for monitoring learning. Reform in School Mathematics builds from the vision that assessment can become the bridge for instructional activity, accountability, and teacher development. It places teachers in key roles while developing the theme that we cannot reform the way in which school mathematics is taught without radically reforming the ways the effects of that teaching are monitored. Among others, this volume addresses the issues of

the specification of performance standards, the development of authentic tasks, the measure of status and growth or a combination, the development of psychometric models, and the development of scoring rubrics. The new models proposed in this book give teachers a wealth of nontraditional assessment strategies and concrete ways to obtain measures of both group and individual differences in growth. Intelligent Algorithms in Ambient and Biomedical Computing Routledge IAU Symposium 257 reviews the development of space science over the last 50 years as part of the International Heliophysical Year. **50th IMO - 50 Years of International Mathematical Olympiads** Woodhead Publishing Limited This book contains suggestions for and reflections on the teaching, learning and assessing of mathematical modelling and applications in a rapidly changing world, including teaching and learning environments. It addresses all levels of education from universities and technical colleges to secondary and primary schools. Sponsored by the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), it reflects recent ideas and methods contributed by specialists from 30 countries in Africa, the Americas, Asia, Australia and Europe. Inspired by contributions to the Fourteenth Conference on the Teaching of Mathematical Modelling and Applications (ICTMA14) in Hamburg, 2009,

the book describes the latest trends in the teaching and learning of mathematical modelling at school and university including teacher education. The broad and versatile range of topics will stress the international state-of-the-art on the following issues: Theoretical reflections on the teaching and learning of modelling Modelling competencies Cognitive perspectives on modelling Modelling examples for all educational levels Practice of modelling in school and at university level Practices in Engineering and Applications

Posthuman Bodies National Academies Press
This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks (ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers

and professionals working in wireless communication and networks, and other allied fields.
Universal Heliophysical Processes (IAU S257) CRC Press
Solar energetic particles (SEPs) emitted from the Sun are a major space weather hazard motivating the development of predictive capabilities. This book presents the results and findings of the HESPERIA (High Energy Solar Particle Events forecasting and Analysis) project of the EU HORIZON 2020

programme. It discusses the forecasting operational tools developed within the project, and presents progress to SEP research contributed by HESPERIA both from the observational as well as the SEP modelling perspective. Using multi-frequency observational data and simulations HESPERIA investigated the chain of processes from particle acceleration in the corona, particle transport in the magnetically complex corona and interplanetary space, to the detection near 1 AU. The book also elaborates on the unique software that has been constructed for inverting observations of relativistic SEPs to physical parameters that can be compared with space-borne measurements at lower energies. Introductory and pedagogical material included in the book make it accessible to students at graduate level and will be useful as background material for Space Physics and Space Weather courses with emphasis on Solar Energetic Particle Event Forecasting and Analysis.

Generalized Low Rank Models Springer Science & Business Media
"... will draw a wide readership from the ranks of literary critics, film scholars, science studies scholars and the growing legion of 'literature and science' researchers. It should be among the essentials in a posthumanist

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toolbox." -- Richard Doyle
Automatic teller machines, castrati, lesbians, The Terminator: all participate in the profound technological, representation, sexual, and theoretical changes in which bodies are implicated. Posthuman Bodies addresses new interfaces between humans and technology that are radically altering the experience of our own and others' bodies.

Retooling Manufacturing Models, Databases and Simulation Tools Needed for Realization of Integrated Computational Mat. Eng. (ICME 2010)
Materials science and engineering (MSE) contributes to our everyday lives by making possible technologies ranging from the automobiles we drive to the lasers our physicians use. Materials Science and Engineering for the 1990s charts the impact of MSE on the private and public sectors and identifies the research that must be conducted to help America remain competitive in the world arena. The authors discuss what current and future resources would be needed to conduct this research, as well as the role that industry, the federal government, and universities should play in this endeavor.

Trends in Teaching and Learning of Mathematical Modelling McGraw-Hill Education (UK)
In this volume cultural, social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives. The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications, the peak research body in this field. A distinctive feature of this volume is the high number of authors from South American countries. These authors bring quite a

different perspective to modelling than has been showcased in previous books in this series, in particular from a cultural point of view. As well as recent international research, there is a strong emphasis on pedagogical issues including those associated with technology and assessment, in the teaching and learning of modelling. Applications at various levels of education are exemplified. The contributions reflect common issues shared globally and represent emergent or on-going challenges.

Metacognition in Learning and Instruction Springer Science & Business Media
In July 2009 Germany hosted the 50th International Mathematical Olympiad (IMO). For the very first time the number of participating countries exceeded 100, with 104 countries from all continents. Celebrating the 50th anniversary of the IMO provides an ideal opportunity to look back over the past five decades and to review its development to become a worldwide event. This book is a report about the 50th IMO as well as the IMO history. A lot of data about all the 50 IMOs are included. We list the most successful contestants, the results of the 50 Olympiads and the 112 countries that have ever taken part. It is impressive to see that many of the world's leading research mathematicians were among the most successful IMO participants in their youth. Six of them gave presentations at a special celebration: Bollobás, Gowers, Lovász, Smirnov, Tao and Yoccoz. This book is aimed at students in the IMO age group and all those who have interest in this worldwide

leading competition for highschool students.

Uncertainty Quantification in Multiscale Materials Modeling National Academies Press Uncertainty Quantification in Multiscale Materials Modeling provides a complete overview of uncertainty quantification (UQ) in computational materials science. It provides practical tools and methods along with examples of their application to problems in materials modeling. UQ methods are applied to various multiscale models ranging from the nanoscale to macroscale. This book presents a thorough synthesis of the state-of-the-art in UQ methods for materials modeling, including Bayesian inference, surrogate modeling, random fields, interval analysis, and sensitivity analysis, providing insight into the unique characteristics of models framed at each scale, as well as common issues in modeling across scales.

Pediatric Lymphomas SUNY Press

In the thrilling sequel to the New York Times bestselling novel Minecraft: The Island, a stranded hero stumbles upon another castaway—and discovers that teamwork might just be the secret to survival. Wandering a vast, icy tundra, the explorer has never felt more alone. Is there anything out here? Did I do the right thing by leaving the safety of my island? Should I give up and go back? So many questions, and no time to ponder—not when dark is falling and dangerous mobs are on the horizon. Gurgling zombies and snarling wolves lurk in the night, and they're closing in. With nowhere to hide, the lone traveler flees up a mountain, trapped and out of options . . . until a mysterious figure arrives, fighting off the horde singlehandedly. The unexpected savior is Summer, a fellow castaway and master of survival in these frozen wastes. Excited to find another person in this strange, blocky world, the

explorer teams up with Summer, whose impressive mountain fortress as a safe haven . . . for now. But teamwork is a new skill for two people used to working alone. If they want to make it home, they will have to learn to work together—or risk losing everything.

Physics of the Inner Heliosphere Proceedings of the Internation

The Ischemic Penumbra presents the current status of concepts and research on this topic and identifies the latest methods for clinicians to quickly and efficiently recognize viable cerebral tissue for enhanced stroke management. Focusing on state-of-the-science technologies and current trends, the book examines imaging strategies utilizing PET, SP

Space Environment Laboratory Springer Didactics of Mathematics as a Scientific Discipline describes the state of the art in a new branch of science. Starting from a general perspective on the didactics of mathematics, the 30 original contributions to the book, drawn from 10 different countries, go on to identify certain subdisciplines and suggest an overall structure or `topology' of the field. The book is divided into eight sections: (1) Preparing Mathematics for Students; (2) Teacher Education and Research on Teaching; (3) Interaction in the Classroom; (4) Technology and Mathematics Education; (5) Psychology of Mathematical Thinking; (6) Differential Didactics; (7) History and Epistemology of Mathematics and Mathematics Education; (8) Cultural Framing of Teaching and Learning Mathematics. Didactics of Mathematics as a Scientific Discipline is required reading for all researchers into the

didactics of mathematics, and contains surveys and a variety of stimulating reflections which make it extremely useful for mathematics educators and teacher trainers interested in the theory of their practice. Future and practising teachers of mathematics will find much to interest them in relation to their daily work, especially as it relates to the teaching of different age groups and ability ranges. The book is also recommended to researchers in neighbouring disciplines, such as mathematics itself, general education, educational psychology and cognitive science.

Handbook of Research on Educational Communications and Technology Independently Published

This book is the outcome of a series of discussions at the Philips Symposium on Intelligent Algorithms, held in Eindhoven in December 2004. It offers exciting and practical examples of the use of intelligent algorithms in ambient and biomedical computing. It contains topics such as bioscience computing, database design, machine consciousness, scheduling, video summarization, audio classification, semantic reasoning, machine learning, tracking and localization, secure computing, and communication.

The STEREO Mission Springer

Extreme Solar Particle Storms: The hostile Sun provides a consolidated review of our current understanding of extreme solar events, or black swans, that leave our technological society vulnerable. Written by experts at the forefront of the growing field of solar storms, this book will be of interest to students and researchers, as well as those curious about the threat that our Sun poses to the modern world.

Sensors and Actuators in Smart Cities Del Rey

A year's worth of management wisdom, all in one place. We've

examined the ideas, insights, and best practices from the past year of Harvard Business Review to bring you the latest, most significant thinking driving business today. With authors from Marcus Buckingham to Herminia Ibarra and company examples from Google to Deloitte, this volume brings the most current and important management conversations to your fingertips. This book will inspire you to: Tap into the new technologies that are changing the way businesses compete Fuel performance by redesigning your organization's practices around feedback Learn techniques to move beyond intuition for better decision making Understand why your strategy execution isn't working—and how to fix it Lead with authenticity by moving beyond your comfort zone Transform your physical office space to promote creativity and productivity This collection of best-selling articles includes: "Reinventing Performance Management," by Marcus Buckingham and Ashley Goodall "The Transparency Trap," by Ethan Bernstein "Profits Without Prosperity," by William Lazonick "Outsmart Your Own Biases," by Jack B. Soll, Katherine L. Milkman, and John W. Payne "The 3-D Printing Revolution," by Richard D'Aveni "Why Strategy Execution Unravels—and What to Do About It," by Donald Sull, Rebecca Homkes, and Charles Sull "The

Authenticity Paradox," by Herminia Ibarra "The Discipline of Business Experimentation," by Stefan Thomke and Jim Manzi "When Senior Managers Won't Collaborate," by Heidi K. Gardner "Workspaces That Move People," by Ben Waber, Jennifer Magnolfi, and Greg Lindsay "Digital Ubiquity: How Connections, Sensors, and Data Are Revolutionizing Business," by Marco Iansiti and Karim R. Lakhani
Motor Sport Springer

Nature Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need to change

how weâ€™re teaching this discipline. Helping Children Learn Mathematics provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre--kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and

answers some of the frequently asked questions when it comes to mathematics instruction. The book concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance that everyone work together to ensure a mathematically literate society.

Integrated Computational Materials Engineering Springer This book is a printed edition of the Special Issue "Sensors and Actuators in Smart Cities" that was published in JSAN

Springer Science & Business Media
This is a comprehensive textbook of Hodgkin's and non-Hodgkin's lymphomas written by leaders in the field of childhood lymphomas. It includes clinical, pathologic and molecular biology of each subtype of lymphoma. The pathology chapters are comprehensive and include excellent photographs. The book is at the level of subspecialists in pediatric hematology and oncology, radiation oncology, pediatric surgery and hematopathology.