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High Performance
Manufacturing
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Edition

Today's global business environments drive

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companies to be more technology dependent, and to remain competitive, firms need to introduce or adopt a new technology to business. In order to achieve a successful integration with maximum return on investment, companies need a systematic approach that accommodates a comprehensive course of action of

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technology integration. Technology Integration to Business – Practical Methods and Case Studies suggests a business-driven holistic approach of technology integration that consists of several steps. First, companies should examine the current state, issues, benefits, and obstacles of technology integration in

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conjunction with their competitive business strategy and operational capability. Second, firms should investigate new, emerging business technologies as to how those technologies can contribute to improve the business. Third, with the technology integration needs identified, companies should

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complete preparatory tasks before actual implementation, such as, business process analysis, technology assessment, technology provider investigation, business case development, and cost-benefit analysis. Fourth, because the nature of technology integration project involves many stakeholders in global locations,

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firms should use effective project management knowledge from project initiation, through planning, execution, control, to close. Students will learn real-world technology integration processes in industry settings and become more prepared for industrial careers. Practitioners will find thorough procedures

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and methods that are useful in practice to improve business performance. Realistic examples for manufacturing, logistics, and supply chain management application domains give the reader practical implications for the methods presented.

High-Performance Manufacturing:
Portable Production Skills is written to

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MSSC National Standards.

From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong

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network is imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile

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computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data

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mining, information technology, and wireless networks.

Over the last decades Discrete Event Simulation has conquered many different application areas. This trend is, on the one hand, driven by an ever wider use of this technology in different fields of science and on the other hand by an incredibly

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creative use of available software programs through dedicated experts. This book contains articles from scientists and experts from 10 countries. They illuminate the width of application of this technology and the quality of problems solved using Discrete Event Simulation. Practical applications of simulation dominate in the

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present book. The book is aimed to researchers and students who deal in their work with Discrete Event Simulation and which want to inform them about current applications. By focusing on discrete event simulation, this book can also serve as an inspiration source for practitioners for solving specific problems during their

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work. Decision makers who deal with the question of the introduction of discrete event simulation for planning support and optimization this book provides a contribution to the orientation, what specific problems could be solved with the help of Discrete Event Simulation within the organization.

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Design of Tough, Transformation-
Strengthened Composites and Structures
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Austenitic TRIP/TWIP Steels and Steel-
Zirconia Composites
Focusing on RFID, Interoperability, and
Sustainability for Manufacturing,
Logistics, and Supply Chain Management

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A Guide to Efficient and Effective
Incident Investigation

Silicon Photonics & High Performance
Computing

Recent Advances in Operations
Management Applications

X-ray computed tomography has
been used for several decades as a

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tool for measuring the three-dimensional geometry of the internal organs in medicine.

However, in recent years, we have seen a move in manufacturing industries for the use of X-ray computed tomography; first to give qualitative information about the

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internal geometry and defects in a component, and more recently, as a fully-quantitative technique for dimensional and materials analysis. This trend is primarily due to the ability of X-ray computed tomography to give a high-density and multi-scale representation of

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both the external and internal geometry of a component, in a non-destructive, non-contact and relatively fast way. But, due to the complexity of X-ray computed tomography, there are remaining metrological issues to solve and the specification standards are still

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under development. This book will act as a one-stop-shop resource for students and users of X-ray computed tomography in both academia and industry. It presents the fundamental principles of the technique, detailed descriptions of the various components (hardware

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and software), current developments in calibration and performance verification and a wealth of example applications. The book will also highlight where there is still work to do, in the perspective that X-ray computed tomography will be an essential part of Industry

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4.0.

Are you trying to improve performance, but find that the same problems keep getting in the way? Safety, health, environmental quality, reliability, production, and security are at stake. You need the long-term planning that will keep

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the same issues from recurring.
Root Cause Analysis Handbook: A
Guide to Effective Incident
Investigation is a powerful tool that
gives you a detailed step-by-step
process for learning from
experience. Reach for this
handbook any time you need field-

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tested advice for investigating, categorizing, reporting and trending, and ultimately eliminating the root causes of incidents. It includes step-by-step instructions, checklists, and forms for performing an analysis and enables users to effectively incorporate the

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methodology and apply it to a variety of situations. Using the structured techniques in the Root Cause Analysis Handbook, you will: Understand why root causes are important. Identify and define inherent problems. Collect data for problem-solving. Analyze data for

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root causes. Generate practical recommendations. The third edition of this global classic is the most comprehensive, all-in-one package of book, downloadable resources, color-coded RCA map, and licensed access to online resources currently available for Root Cause

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Analysis (RCA). Called by users "the best resource on the subject" and "in a league of its own." Based on globally successful, proprietary methodology developed by ABS Consulting, an international firm with 50 years' experience in 35 countries. Root Cause Analysis

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Handbook is widely used in corporate training programs and college courses all over the world. If you are responsible for quality, reliability, safety, and/or risk management, you'll want this comprehensive and practical resource at your fingertips. The

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book has also been selected by the American Society for Quality (ASQ) and the Risk and Insurance Society (RIMS) as a "must have" for their members.

The book Lifehack calls "The Bible of business and personal productivity." "A completely revised

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and updated edition of the
blockbuster bestseller from "the
personal productivity guru"—Fast
Company Since it was first
published almost fifteen years ago,
David Allen's Getting Things Done
has become one of the most
influential business books of its

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era, and the ultimate book on personal organization. "GTD" is now shorthand for an entire way of approaching professional and personal tasks, and has spawned an entire culture of websites, organizational tools, seminars, and offshoots. Allen has rewritten the

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book from start to finish, tweaking his classic text with important perspectives on the new workplace, and adding material that will make the book fresh and relevant for years to come. This new edition of Getting Things Done will be welcomed not only by its hundreds

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of thousands of existing fans but also by a whole new generation eager to adopt its proven principles. Additive manufacturing (AM) of metals and composites using laser energy, direct energy deposition, electron beam methods, and wire arc melting have recently gained

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importance due to their advantages in fabricating the complex structure. Today, it has become possible to reliably manufacture dense parts with certain AM processes for many materials, including steels, aluminum and titanium alloys, superalloys, metal-

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based composites, and ceramic matrix composites. In the near future, the AM material variety will most likely grow further, with high-performance materials such as intermetallic compounds and high entropy alloys already under investigation. Additive

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Manufacturing Applications for Metals and Composites is a pivotal reference source that provides vital research on advancing methods and technological developments within additive manufacturing practices. Special attention is paid to the material design of additive

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manufacturing of parts, the choice of feedstock materials, the metallurgical behavior and synthesis principle during the manufacturing process, and the resulted microstructures and properties, as well as the relationship between these factors.

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While highlighting topics such as numerical modeling, intermetallic compounds, and statistical techniques, this publication is ideally designed for students, engineers, researchers, manufacturers, technologists, academicians, practitioners,

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scholars, and educators.

A Pro Shares a Step-By-Step Guide
to Creating a Plan That Gets
Results

Glencoe Precalculus Student
Edition

Additive Manufacturing of Emerging
Materials

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Use Cases of Discrete Event
Simulation

Design, Applications, and
Maintenance of Cyber-Physical
Systems

Handbook of Research on Nurturing
Industrial Economy for Africa's
Development

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Advancements in the Processing,
Characterization, and Application of
Lightweight Materials

***The chips in present-day cell
phones already contain billions of
sub-100-nanometer transistors.
By 2020, however, we will see
systems-on-chips with trillions of***

10-nanometer transistors. But this will be the end of the miniaturization, because yet smaller transistors, containing just a few control atoms, are subject to statistical fluctuations and thus no longer useful. We also need to worry about a

potential energy crisis, because in less than five years from now, with current chip technology, the internet alone would consume the total global electrical power! This book presents a new, sustainable roadmap towards ultra-low-energy (femto-Joule), high-

performance electronics. The focus is on the energy-efficiency of the various chip functions: sensing, processing, and communication, in a top-down spirit involving new architectures such as silicon brains, ultra-low-voltage circuits, energy

harvesting, and 3D silicon technologies. Recognized world leaders from industry and from the research community share their views of this nanoelectronics future. They discuss, among other things, ubiquitous communication based

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***on mobile companions, health
and care supported by
autonomous implants and by
personal carebots, safe and
efficient mobility assisted by co-
pilots equipped with intelligent
micro-electromechanical systems,
and internet-based education for***

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***a billion people from
kindergarden to retirement. This
book should help and interest all
those who will have to make
decisions associated with future
electronics: students, graduates,
educators, and researchers, as
well as managers, investors, and***

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***policy makers. Introduction:
Towards Sustainable 2020
Nanoelectronics.- From
Microelectronics to
Nanoelectronics.- The Future of
Eight Chip Technologies.-
Analog-Digital Interfaces.-
Interconnects and Transceivers.-***

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***Requirements and Markets for
Nanoelectronics.- ITRS: The
International Technology
Roadmap for Semiconductors.-
Nanolithography.- Power-
Efficient Design Challenges.-
Superprocessors and
Supercomputers.- Towards***

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***Terabit Memories.- 3D
Integration for Wireless
Multimedia.- The Next-
Generation Mobile User-
Experience.- MEMS (Micro-
Electro-Mechanical Systems) for
Automotive and Consumer.-
Vision Sensors and Cameras.-***

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***Digital Neural Networks for New
Media.- Retinal Implants for
Blind Patients.- Silicon Brains.-
Energy Harvesting and Chip
Autonomy.- The Energy Crisis.-
The Extreme-Technology
Industry.- Education and
Research for the Age of***

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***Nanoelectronics.- 2020 World
with Chips.***

***Lean Production transformed the
way that companies think about
production and manufacturing.***

***This book provides a new
challenge. It arises from the work
of the Lean Aerospace Initiative***

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at MIT and provides a new agenda and bold vision for the aerospace industry to take it out of crisis. It also redefines and develops the concept of Lean as a framework for enterprise transformation and this will be relevant and critical for all

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industries and enterprises.

***A new book from the Lean
Manufacturing Expert Sebastian
Brau, presenting techniques,
software, procedures and tricks
to get the maximum performance
from your Lean project by the use
of current available technologies***

in factories. You will learn how to: 1.- Implement the 'Active Inventory' methodology to prevent your factory from having any stockout ever again. 2.- Use 'lean markers' to detect productivity deviations in your operations more easily. 3.- Merge

Kaizen and Pareto to complete your 'continuous improvement' cycles faster and cheaper. 4.- Transform the quality controls in your factory into plant sensors to build a 'digital nervous system'. 5.- Use simple plant records to automatically feed your ERP. 6.-

***Implement a Material
Traceability control that does not
jeopardize your operation's
productivity with unnecessary
costs. 7.- Use SMED video guides
to reduce the need to train your
staff and the global time for the
Lean project to be implemented.***

8.- Implement a time control for your staff without offending susceptibilities in the factory. 9.- Know how the new North American Law 'FSMA' can affect your operation if you do not anticipate its effects. A different Lean book written by a Robotics

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***and Artificial Intelligence
Software Engineer with more
than 20 years' experience in
implementing Lean
Manufacturing and structured
with the different technological
viewpoint that his specialized
profile allows, in the form of***

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***"Practical guide on the correct
use of Technology in a Lean
Project"***

***Industrial internet of things
(IIoT) is changing the face of
industry by completely redefining
the way stakeholders,
enterprises, and machines***

connect and interact with each other in the industrial digital ecosystem. Smart and connected factories, in which all the machinery transmits real-time data, enable industrial data analytics for improving operational efficiency,

productivity, and industrial processes, thus creating new business opportunities, asset utilization, and connected services. IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial

ecosystems. Innovations in the Industrial Internet of Things (IIoT) and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on

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***optimization of industrial
operational efficiency,
rationalization, automation, and
maintenance. While highlighting
topics such as artificial
intelligence, cyber security, and
data collection, this book is
ideally designed for engineers,***

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***manufacturers, industrialists,
managers, IT consultants,
practitioners, students,
researchers, and industrial
industry professionals.***

***The Technological Evolution of
Lean***

Concepts, Methodologies, Tools,

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and Applications

Getting Things Done

Select Proceedings of ITME 2019

3D Printing

Parallel PnP Robots

Models and Techniques

The definitive classic on high-
performance teams The Wisdom of

Teams is the definitive work on how to create high-performance teams in any organization. Having sold nearly a half million copies and been translated into more than fifteen languages, the authors' clarion call that teams should be the basic unit of organization for most businesses has permanently

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shaped the way companies reach the highest levels of performance. Using engaging case studies and testimonials from both successful and failed teams—ranging from Fortune 500 companies to the U.S. Army to high school sports—the authors explain the dynamics of teams both in great detail

and with a broad view. Their conclusions and prescriptions span the familiar to the counterintuitive: • Commitment to performance goals and common purpose is more important to team success than team building. • Opportunities for teams exist in all parts of the organization. • Real teams

are the most successful spearheads of change at all levels. • Working in teams naturally integrates performance and learning. • Team “endings” can be as important to manage as team “beginnings.” Wisdom lies in recognizing a team’s unique potential to deliver results and in understanding its

many benefits—development of individual members, team accomplishments, and stronger companywide performance. Katzenbach and Smith's comprehensive classic is the essential guide to unlocking the potential of teams in your organization. High-Performance Manufacturing,

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Education**

**This book presents the select
proceedings of the International
Conference on Industrial and
Manufacturing Systems (CIMS 2020). It
presents the current scenarios and
future advancements in the domain of**

industrial engineering under context of optimum value. Various topics covered include optimisation and its applicability in the various areas of industrial engineering like selection of designing parameters and, decisions related to conditions of optimum process/operation parameters, facilities

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**planning and management,
transportation and supply chain
management, quality engineering,
reliability and maintenance, system
optimization, product design and
development, human factors and
ergonomics, project management,
service system and service management,**

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waste management, sustainable manufacturing and operations, systems design, lean manufacturing, and performance measurement. This book will be useful for the students, researchers and professionals working in the area of industrial and production engineering.

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Secrets to Writing a Successful Business Plan: A Pro Shares a Step-by-Step Guide to Creating a Plan that Gets Results by Hal Shelton will open your eyes to insider tips, hints, and techniques for creating a winning business plan and attaining funding. This second edition maintains the

original laser focus on writing the plan. It also adds much material on the vibrant crowdfunding platforms as well as providing a new section on issues faced by early stage companies. Nearly 50 percent of new businesses fail within five years. A well-thought-out business plan can dramatically turn the odds in

your favor. With this easy-to-follow guide, you will (1) Discover why you need a business plan and the best style for you, (2) Receive step-by-step guidance for creating each section of your plan, (3) Get proven strategies for obtaining bank loans and attracting investors, (4) Spend less time writing

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**your plan and more time setting up
your business, and (5) Learn how to
create a business plan for a nonprofit
This book is for entrepreneurs who are
thinking of starting a small business or
nonprofit, and for small business
owners who want to grow an existing
business or solve an operating problem.**

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This book will also help if you are looking for assurance that you are headed in the right direction, seeking help with a section of your business plan that you do not understand, feeling that a section of your business plan is not robust enough and want pointers, or wanting to learn where and how to

apply for funding. Entrepreneurs should always surround themselves with mentors and advisors, so you will also find ideas on where to find these valuable resources. The Secrets to Writing a Successful Business Plan is packed with actionable advice and real-life examples from Shelton's experience

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**as a senior executive, SCORE small
business mentor, and angel investor.**

Lean Manufacturing 4.0

**Encyclopedia of Organizational
Knowledge, Administration, and
Technology**

Technology Integration to Business

Online Course Management: Concepts,

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**Methodologies, Tools, and Applications
Parametric Modeling, Performance
Evaluation and Design Optimization
Industrial X-Ray Computed
Tomography
Current Topics and Problems from the
Manufacturing Perspective**
One cannot be an expert in

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Autonomous Vehicle Navigation Systems without a proper understanding of the preliminary visual concepts being covered in this book. It is a COMPENDIUM of the intermediate level books in the Visual Mathematics Series. They

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cover topics of - Elementary
(introductory solved visual
problems) - Pre-algebra - Geometry
- Algebra This book intends to test
the mathematical concepts taught
in intermediate school with an
emphasis on the visual skills. The

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problems are based on middle school curriculum but they are meant to be challenging, and meant for visual learners and high achievers. The use of diagrams and color coding scheme allows enhancing the description of the

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problems presented in this book and to lead the problem solver towards the solution. The problems presented in this book are in FULL COLOR and they create a visual dimension to the underlying mathematical concepts. It intends

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to appeal to both sides of the brain - the left and the right. It requires understanding the problem presented in a visual manner, but requires solving the problems using a combination of visual insight and mathematical discipline. This book

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provides a wide variety of problems, albeit a very limited number of each type. The main goal is to maintain the student's interest. The first eighteen pages include solved examples of visual math problems and should provide

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the necessary background. Many of the problems in the Pre-Algebra section will remind you of logic based grid puzzles, but the problems in this book have a variety of graph as well as grid representations. The problems in

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the Geometry section require thinking in relative terms and many of the problems have a certain artistic flavor. The algebra section is also about geometry problems that require algebraic problem solving.

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This book comprises selected contributions to the Computer Society of India ' s annual convention. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys and succinct reviews,

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covering diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on silicon photonics & high performance computing, offering valuable

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insights for researchers and students alike.

Gaining public attention due, in part, to their potential application as energy storage devices in cars, Lithium-ion batteries have encountered widespread demand,

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however, the understanding of lithium-ion technology has often lagged behind production. This book defines the most commonly encountered challenges from the perspective of a high-end lithium-ion manufacturer with two decades

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of experience with lithium-ion batteries and over six decades of experience with batteries of other chemistries. Authors with years of experience in the applied science and engineering of lithium-ion batteries gather to share their view

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on where lithium-ion technology stands now, what are the main challenges, and their possible solutions. The book contains real-life examples of how a subtle change in cell components can have a considerable effect on cell 's

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performance. Examples are supported with approachable basic science commentaries. Providing a unique combination of practical know-how with an in-depth perspective, this book will appeal to graduate students, young faculty

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members, or others interested in the current research and development trends in lithium-ion technology.

This book entitled “ Laser Additive Manufacturing of High-Performance Materials ” covers the specific

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aspects of laser additive
manufacturing of high-performance
new materials components based
on an unconventional materials
incremental manufacturing
philosophy, in terms of materials
design and preparation, process

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control and optimization and theories of physical and chemical metallurgy. This book describes the capabilities and characteristics of the development of new metallic materials components by laser additive manufacturing process,

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including nanostructured materials, in situ composite materials, particle reinforced metal matrix composites, etc. The topics presented in this book, similar as laser additive manufacturing technology itself, show a significant interdisciplinary

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feature, integrating laser technology, materials science, metallurgical engineering and mechanical engineering. This is a book for researchers, students, practicing engineers and manufacturing industry

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professionals interested in laser additive manufacturing and laser materials processing. Dongdong Gu is a Professor at College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics (NUAA), PR

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China.

Advanced Manufacturing
Techniques for Engineering and
Engineered Materials
: Understanding the Power of Erp
for Today's Businesses
Appliance and Research

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High-Performance Manufacturing,
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Overcoming the Unseen Forces
That Stand in the Way of True
Inspiration
Insights from MIT's Lean
Aerospace Initiative

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Advanced Methodologies and
Technologies in Network
Architecture, Mobile Computing,
and Data Analytics

**Cyber-physical systems (CPS) can
be defined as systems in which
physical objects are represented**

**in the digital world and
integrated with computation,
storage, and communication
capabilities and are connected to
each other in a network. The goal
in the use of the CPS is
integrating the dynamics of the
physical processes with those of**

**the software and networking,
providing abstractions and
modelling, design, and analysis
techniques for the integrated
whole. The notion of CPS is
linked to concepts of robotics and
sensor networks with intelligent
systems proper of computational**

**intelligence leading the pathway.
Recent advances in science and
engineering improve the link
between computational and
physical elements by means of
intelligent systems, increasing
the adaptability, autonomy,
efficiency, functionality,**

reliability, safety, and usability of cyber-physical systems. The potential of cyber-physical systems will spread to several directions, including but not limited to intervention, precision manufacturing, operations in dangerous or inaccessible

environments, coordination, efficiency, Maintenance 4.0, and augmentation of human capabilities. Design, Applications, and Maintenance of Cyber-Physical Systems gives insights about CPS as tools for integrating the dynamics of the physical

processes with those of software and networking, providing abstractions and modelling, design, and analysis techniques for their smart manufacturing interoperation. The book will have an impact upon the research on robotics, mechatronics,

integrated intelligent multibody systems, Industry 4.0, production systems management and maintenance, decision support systems, and Maintenance 4.0. The chapters discuss not only the technologies involved in CPS but also insights into how they are

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used in various industries. This book is ideal for engineers, practitioners, researchers, academicians, and students who are interested in a deeper understanding of cyber-physical systems (CPS), their design, application, and maintenance,

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with a special focus on modern technologies in Industry 4.0 and Maintenance 4.0.

The rapid growth in online and virtual learning opportunities has created culturally diverse classes and corporate training sessions. Instruction for these learning

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opportunities must adjust to meet participant needs. Online Course Management: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on the trends, techniques, and management of

online and distance-learning environments and examines the benefits and challenges of these developments. Highlighting a range of pertinent topics, such as blended learning, social presence, and educational online games, this multi-volume book is

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**ideally designed for
administrators, developers,
instructors, staff, technical
support, and students actively
involved in teaching in online
learning environments.**

**"This book contains the latest
research developments in**

manufacturing technology and its optimization, and demonstrates the fundamentals of new computational approaches and the range of their potential application"--Provided by publisher.

All machining process are

dependent on a number of inherent process parameters. It is of the utmost importance to find suitable combinations to all the process parameters so that the desired output response is optimized. While doing so may be nearly impossible or too

expensive by carrying out experiments at all possible combinations, it may be done quickly and efficiently by using computational intelligence techniques. Due to the versatile nature of computational intelligence techniques, they can

be used at different phases of the machining process design and optimization process. While powerful machine-learning methods like gene expression programming (GEP), artificial neural network (ANN), support vector regression (SVM), and

more can be used at an early phase of the design and optimization process to act as predictive models for the actual experiments, other metaheuristics-based methods like cuckoo search, ant colony optimization, particle swarm

optimization, and others can be used to optimize these predictive models to find the optimal process parameter combination. These machining and optimization processes are the future of manufacturing. Data-Driven Optimization of

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**Manufacturing Processes
contains the latest research on
the application of state-of-the-art
computational intelligence
techniques from both predictive
modeling and optimization
viewpoint in both soft computing
approaches and machining**

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From a co-founder of Pixar

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*Animation Studios—the Academy Award–winning studio behind **Coco**, **Inside Out**, and **Toy Story**—comes an incisive book about creativity in business and leadership for readers of **Daniel Pink**, **Tom Peters**, and **Chip and Dan Heath**. **NEW YORK TIMES***

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the nerve center of Pixar

*Animation—into the meetings,
postmortems, and “Braintrust”
sessions where some of the most
successful films in history are made.
It is, at heart, a book about
creativity—but it is also, as Pixar co-*

founder and president Ed Catmull writes, “an expression of the ideas that I believe make the best in us possible.” For nearly twenty years, Pixar has dominated the world of animation, producing such beloved films as the Toy Story trilogy,

Monsters, Inc., Finding Nemo, The Incredibles, Up, WALL-E, and Inside Out, which have gone on to set box-office records and garner thirty Academy Awards. The joyousness of the storytelling, the inventive plots, the emotional authenticity: In some ways,

Pixar movies are an object lesson in what creativity really is. Here, in this book, Catmull reveals the ideals and techniques that have made Pixar so widely admired—and so profitable. As a young man, Ed Catmull had a dream: to make the first computer-

animated movie. He nurtured that dream as a Ph.D. student at the University of Utah, where many computer science pioneers got their start, and then forged a partnership with George Lucas that led, indirectly, to his co-founding Pixar in 1986.

Nine years later, Toy Story was released, changing animation forever. The essential ingredient in that movie's success—and in the thirteen movies that followed—was the unique environment that Catmull and his colleagues built at Pixar, based on

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leadership and management

philosophies that protect the creative process and defy convention, such as:

- Give a good idea to a mediocre team, and they will screw it up. But give a mediocre idea to a great team, and they will either fix it or come up with*

something better. • If you don't strive to uncover what is unseen and understand its nature, you will be ill prepared to lead. • It's not the manager's job to prevent risks. It's the manager's job to make it safe for others to take them. • The cost of

preventing errors is often far greater than the cost of fixing them. • A company's communication structure should not mirror its organizational structure. Everybody should be able to talk to anybody.

This book is a clear and concise guide

to Additive Manufacturing (AM), now a well-established valuable tool for making models and prototypes, and also a manufacturing method for molds and final parts finding applications in industries such as medicine, car manufacturing, and

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aerospace engineering. The book was designed as a supporting material for special courses on advanced manufacturing technology, and for supplementing the content of traditional manufacturing lessons. This second edition has been updated

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to account for the recent explosion of availability of small, inexpensive 3D printers for domestic use, as well as new industrial printers for series production that have come onto the market. Contents: • Basics of 3D Printing Technology • Additive

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Employees of different labor sectors are involved in different projects and pressed to deliver results in a specific period of time, which increases their

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Evaluating Mental Workload for Improved Workplace Performance is a critical scholarly book that provides comprehensive research on mental workload and the effects, both adverse and positive, that it can have on employee populations as well as

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occupied the most advanced high-
performance application area.
Various types of polyester fibers
having design-shaped cross-
sections and special fiber
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is an excellent textbook that elucidates the basic concepts of modern fibers. At the same time, researchers, both in academia and industry, will find a comprehensive overview of recent man-made fibers. This publication, presenting the most easily understandable

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from the unique angle of developing
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discusses a wide range of topics in mechanical engineering such as mechanical systems, materials engineering, micro-machining, renewable energy, systems engineering, thermal engineering, additive manufacturing, automotive technologies, rapid prototyping,

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computer aided design and manufacturing. This book, in addition to assisting students and researchers working in various areas of mechanical engineering, can also be useful to researchers and professionals working in various allied and interdisciplinary fields.

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This open access book presents a collection of the most up-to-date research results in the field of steel development with a focus on pioneering alloy concepts that result in previously unattainable materials properties. Specifically, it gives a detailed overview of the marriage of high-performance

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steels of the highest strength and formability with damage-tolerant zirconia ceramics by innovative manufacturing technologies, thereby yielding a new class of high-performance composite materials. This book describes how new high-alloy stainless TRIP/TWIP steels (TRIP: TRansformation-Induced

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Plasticity, TWIP: TWinning-induced Plasticity) are combined with zirconium dioxide ceramics in powder metallurgical routes and via melt infiltration to form novel TRIP-matrix composites. This work also provides a timely perspective on new compact and damage-tolerant composite materials,

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research results previously scattered in many prestigious international journals and conference proceedings and methodically edits them and presents them in a unified form. The book is of interest to researchers, R&D engineers and graduate students in industrial parallel robotics who wish to learn the

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knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry – in education, government, healthcare, not-for-profit,

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innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development

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including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology

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A robust manufacturing sector is a necessity and a sufficient condition for any country's human and economic development as it creates employment and alleviates poverty. During this Fourth Industrial Revolution era, there is an urgent need in Africa to optimally

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utilize the existing resources to support manufacturing or else risk allowing the continent to fall behind in the industrial economy. Innovative strategies are needed that can unlock Africa's manufacturing potential by exploring key areas that may help Africa mature

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and launch modernized economies that will benefit the developed world's industrial economy. The Handbook of Research on Nurturing Industrial Economy for Africa's Development examines various innovations necessary for Africa's economic

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development including drivers of the manufacturing economy such as education, agriculture, human capital, science and technological innovations, language, politics, and business environments. The book explores strategies to increase Africa's

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economic diversity, complexity, productivity, and ultimately competitiveness, and for the continent to realize its manufacturing/industrial potential. Further, chapters focus on African countries' industrial economies in the African context and

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