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HICKS LAUREN

China's Technology Innovators National Academies Press

This book is for strategists, leaders, managers, entrepreneurs who are so caught up in the daily pressures of business that they're missing key signals of their future reality. It's like driving a car heads down, staring at the dashboard, rather than heads up, looking through the windshield. We need to do both. The book is devoted to the practice of sensing, or scanning the horizon for signs of emerging trends. The sooner we see them, the better our response. Each chapter starts with a set of signals/data we observed that, taken together, helped us to reveal a trend. The impact of new technology on strategy is a theme of the book, and each chapter looks at how organizations are using new technologies to their advantage. The goal is to spark meaningful conversations within organizations: How could we participate in the collaborative economy? What could our CIO and our CMO be doing to drive strategy, innovation, and revenue growth? What could we do to leverage the Internet of Things and intelligent automation as catalysts of invention? Could we use MOOCs as pivots for corporate training, recruiting, and marketing? How might technology transform the manufacturing process, our supply chain, and the knowledge work that we do? Could we take advantage of the renaissance in domestic energy (oil and gas)? What could we be doing to counter cyber crime? What is our organization doing to tune into signals of emerging trends that may be relevant to us? In an environment where the pace of change is accelerating, sensing has become an essential discipline for all organizations. No matter your role in an organization, sensing emerging trends can make you more effective and more valuable in your work. If you've been working too heads-down lately and feel overwhelmed by data and deadlines, then this book is for you. It's a quick read designed to give you a heads up on your horizon.

Workforce Education Crown Currency

Like many other new technologies which have since been seized and exploited by others, the industrial robot is a British invention. In 1957, a patent was produced by a British inventor, Cyril Walter Kenward, and later it became crucial to the future of robotics. For across the Atlantic two robot builders, Unimation and AMF, both infringed this patent and ultimately a cash settlement was made to Kenward. The owner of Unimation Inc. was Joseph Engelberger, an entrepreneur and avid reader of Isaac Asimov, the writer who helped to create the image of the benevolent robot. It is claimed that Engelberger's journey of fame down the road which led to him being hailed as the 'father of robotics' can be traced to the day that he met George C. Devol at a cocktail party. Devol was an inventor with an impressive list of patents to his name in the electronics field. One of Devol's patent applications referred to a Programmed Transfer Article. Devol's patent was issued in 1961 as US Patent 2,988,237, and this formed the basis of the Unimate robot which first saw the light of day in 1960. The first Unimate was sold to Ford Motor Company which used it to tend a die-casting machine. It is perhaps ironic that the first robot was used by a company which refused to recognise the machine as a robot, preferring instead to call it a Universal Transfer Device.

The Commercial Code of Japan IGI Global

According to Prof. D. Despommier, by the year 2050, nearly 80% of the earth's population will reside in urban centers. Furthermore, the human population will increase by about 3 billion people during the interim. New land will be needed to grow enough food to feed them. At present, throughout the world, over 80% of the land that is suitable for raising crops is in use. What can be done to avoid this impending disaster? One possible solution is indoor farming. However, not all crops can easily be moved in an indoor environment. Nevertheless, to secure the food supply, it is necessary to increase the automation level in agriculture significantly. This book intends to provide the reader with a comprehensive overview of the impact of the Fourth Industrial Revolution and automation examples

in agriculture.

Moody's International News Reports BoD - Books on Demand

Politicians, voters, executives, and employees all want the answer to one question: How can America compete with cheap foreign labor, and restore skilled, well-paying jobs to our economy? American Drive answers that question. An executive with nearly thirty years in the trenches of the hard-nosed Detroit automobile industry, Richard E. "Dick" Dauch had long dreamed of running his own manufacturing company. From his first job on the plant floor at General Motors to his crucial role in helping to rescue Chrysler from the brink of bankruptcy, Dauch focused passionately, and relentlessly, on quality, productivity, and flexibility in manufacturing. In 1993 he took on the challenge of his life, buying a lagging axle supply and parts business from GM, along with five rusting, unprofitable, union-controlled, near-decrepit plants in the heart of a crime-ridden Detroit and a deteriorating environment in Buffalo, New York. The newly created "stand-alone" company was named American Axle and Manufacturing. Dauch set out to create a world-class industrial automotive manufacturer. He bought and bulldozed the crack, liquor, and prostitution businesses that surrounded the company and rebuilt the plants. He upward educated, trained, and expanded the skill sets of the workforce, struck tough bargains with unions, and solved massive quality problems that were costing tens of millions every year and undermining customer satisfaction. Within one year of opening the doors, AAM had turned an astounding \$66 million in profit. In American Drive, Dauch narrates the story of AAM against the backdrop of his nearly fifty years in the auto industry, from its glory days to its decline in the face of foreign competition, government bailouts, battles with unions, and the recent Great Recession. Tough, smart, inspiring, high-energy, and opinionated, Dauch offers memorable lessons on leadership, advanced product technology, communication, negotiation, and making profits in the most difficult times. Dauch's story transcends the auto industry and draws a blueprint for job creation, manufacturing competitiveness, economic growth, and excellence in America.

20YY: PREPARING FOR WAR IN THE ROBOTIC AGE. Heart of the Lakes Publishing

3D Robotics co-founder and bestselling author Chris Anderson takes you to the front lines of a new industrial revolution as today's entrepreneurs, using open source design and 3-D printing, bring manufacturing to the desktop. In an age of custom-fabricated, do-it-yourself product design and creation, the collective potential of a million garage tinkerers and enthusiasts is about to be unleashed, driving a resurgence of American manufacturing. A generation of "Makers" using the Web's innovation model will help drive the next big wave in the global economy, as the new technologies of digital design and rapid prototyping gives everyone the power to invent--creating "the long tail of things".

Signals for Strategists John Wiley & Sons

This cutting-edge financial casebook is divided into four modules: Structuring Projects, Valuing Projects, Managing Project Risk, and Financing Projects. The cases have been carefully selected to reflect actual use of project finance over the past five years in terms of geographic location (the cases come from 15 different countries) and industrial sectors. * Benjamin Esty, of the Harvard Business School, is one of the leading scholars in project finance. * Project finance is becoming the financing mechanism of choice for many private firms. * Cases require the reader to integrate knowledge from multiple disciplines when making a single managerial decision. This integration of functional areas such as strategy, operations, ethics, and human resource management encourages the reader to adopt a more integrative perspective and understanding of the interconnectedness of managerial decision-making.

Higher Education Amendments of 1986 Springer Science & Business Media

This book is one of the first to explore how Chinese companies are feeling the impulse of emerging business trends and seizing opportunities brought by technology innovation. It consists case studies

of 7 Chinese companies: 3DMed, Wechat from Tencent, Shanghai GM, CP Group, Alibaba, AutoNavi, and ICBC. Each Chinese company has its unique perspectives and different ways to make transformation and business model adjustments. The book helps fill the gap between the global interest in "Innovate in China" and the limited availability of cases on innovations in the country. It is a valuable reference resource for readers in China and beyond wishing to address challenges in the context of growing digital technologies and overwhelming business trends.

Efficient road transport Edward Elgar Publishing

"CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment. Also, it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are."--BOOK JACKET.

Schools Cannot Do it Alone Routledge

Instrument Engineers' Handbook - Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power.

Modern Project Finance Springer Nature

The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time. How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity, quality, sustainability, reliability, agility, resilience, and best practices with rapid time to production and value? The answers are found in the fully updated new edition of Manufacturing Engineering Handbook. The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process—design, development, tools, processes, quality, speed, output, safety, and sustainability. You will gain access to information on conventional and modern technologies, manufacturing processes, and operations management that will assist you in achieving these goals. The book is written by a team of more than 100 internationally renowned manufacturing engineering experts, and pared down from its original 1200 pages. The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern, global manufacturing world. Brand-new chapters on: eco-design and sustainability; nano materials and nano manufacturing; facilities planning; operations research New sections on plastics, composites, and moldmaking; global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color illustrations, graphs, charts, discussions on future trends, additional technical papers, and suggestions for further reading

WIPO Technology Trends 2019 - Artificial Intelligence WIPO

Written by two of Europe's leading robotics experts, this book provides the tools for a unified approach to the modelling of robotic manipulators, whatever their mechanical structure. No other publication covers the three fundamental issues of robotics: modelling, identification and control. It covers the development of various mathematical models required for the control and simulation of robots. World class authority Unique range of coverage not available in any other book Provides a complete course on robotic control at an undergraduate and graduate level

Chinese Firms, Global Firms Butterworth-Heinemann

Explores the politics and economics of the Abe government and evaluates major policies, such as Abenomics policy reforms.

The Political Economy of the Abe Government and Abenomics Reforms OECD

Reveals the proprietary framework used by an exclusive community of top money managers and value investors in their never-ending quest for untapped investment ideas Considered an indispensable source of cutting-edge research and ideas among the world's top investment firms and money managers, the journal The Manual of Ideas boasts a subscribers list that reads like a Who's Who of high finance. Written by that publication's managing editor and inspired by its mission to serve as an "idea funnel" for the world's top money managers, this book introduces you to a proven, proprietary framework for finding, researching, analyzing, and implementing the best value investing opportunities. The next best thing to taking a peek under the hoods of some of the most prodigious brains in the business, it gives you uniquely direct access to the thought processes and

investment strategies of such super value investors as Warren Buffett, Seth Klarman, Glenn Greenberg, Guy Spier and Joel Greenblatt. Written by the team behind one of the most read and talked-about sources of research and value investing ideas Reviews more than twenty pre-qualified investment ideas and provides an original ranking methodology to help you zero-in on the three to five most compelling investments Delivers a finely-tuned, proprietary investment framework, previously available only to an elite group of TMI subscribers Step-by-step, it walks you through a proven, rigorous approach to finding, researching, analyzing, and implementing worthy ideas

The International Robot Industry Report Tarcher

This Proceedings volume gathers outstanding papers submitted to Proceedings of China SAE Congress 2018: Selected Papers, the majority of which are from China - the largest car-maker as well as most dynamic car market in the world. The book covers a wide range of automotive topics, presenting the latest technical advances and approaches to help technicians solve the practical problems that most affect their daily work. It is intended for researchers, engineers and postgraduate students in the fields of automotive engineering and related areas.

The Integrated Reporting Movement CRC Press

The most significant domestic issue of the 2004 elections is unemployment. The United States has lost nearly three million jobs in the last ten years, and real employment hovers around 9.1 percent. Only one political analyst foresaw the dark side of the technological revolution and understood its implications for global employment: Jeremy Rifkin. The End of Work is Jeremy Rifkin's most influential and important book. Now nearly ten years old, it has been updated for a new, post-New Economy era. Statistics and figures have been revised to take new trends into account. Rifkin offers a tough, compelling critique of the flaws in the techniques the government uses to compile employment statistics. The End of Work is the book our candidates and our country need to understand the employment challenges-and the hopes-facing us in the century ahead.

The End of Work Vollmer and Associates Incorporated

Real world advice from Dick Dauch the man who engineered the manufacturing renaissance at Chrysler. Automotive authority Richard Dauch, best known for his contribution to Chrysler's early-eighties resuscitation, just wrote a new book based on his 27 years of experience building cars. A Passion for Manufacturing is loaded with issues and anecdotes about manufacturing from the man knighted by Iacocca as the number three As Executive Vice President of Worldwide Manufacturing. Twelve chapters cover everything from manufacturing dos and don'ts, tips for a successful facility tour, how to work with unions, and being a successful plant manager, to education, teamwork, vendors and more!

ROMANSY 21 - Robot Design, Dynamics and Control Industrial Press Inc.

In Industry 4.0, industrial productions are adjusted to complete smart automation, which means introducing self-automation methods, self-configuration, self-diagnosis of problems and removal, cognition, and intelligent decision making. This implementation of Industry 4.0 brings about a change in business paradigms and production models, and this will be reflected at all levels of the production process including supply chains and will involve all workers in the production process from managers to cyber-physical systems designers and customers as end-users. The Handbook of Research on Integrating Industry 4.0 in Business and Manufacturing is an essential reference source that explores the development and integration of Industry 4.0 by examining changes and innovations to manufacturing processes as well as its applications in different industrial areas. Featuring coverage on a wide range of topics such as cyber physical systems, integration criteria, and artificial intelligence, this book is ideally designed for mechanical engineers, electrical engineers, manufacturers, supply chain managers, logistics specialists, investors, managers, policymakers, production scientists, researchers, academicians, and students at the postgraduate level.

Instrument Engineers' Handbook, Volume 3 St. Martin's Press

A roadmap for how we can rebuild America's working class by transforming workforce education and training. The American dream promised that if you worked hard, you could move up, with well-paying working-class jobs providing a gateway to an ever-growing middle class. Today, however, we have increasing inequality, not economic convergence. Technological advances are putting quality jobs out of reach for workers who lack the proper skills and training. In Workforce Education, William Bonvillian and Sanjay Sarma offer a roadmap for rebuilding America's working class. They argue that we need to train more workers more quickly, and they describe innovative methods of workforce education that are being developed across the country.

The Next Production Revolution Cambridge University Press

This open access book summarizes the results of the European research project "Twin-model based virtual manufacturing for machine tool-process simulation and control" (Twin-Control). The first part reviews the applications of ICTs in machine tools and manufacturing, from a scientific and industrial point of view, and introduces the Twin-Control approach, while Part 2 discusses the development of a digital twin of machine tools. The third part addresses the monitoring and data management infrastructure of machines and manufacturing processes and numerous applications of energy monitoring. Part 4 then highlights various features developed in the project by combining the developments covered in Parts 3 and 4 to control the manufacturing processes applying the so-called CPSs. Lastly, Part 5 presents a complete validation of Twin-Control features in two key industrial sectors: aerospace and automotive. The book offers a representative overview of the latest trends in the manufacturing industry, with a focus on machine tools.

Manufacturing Engineering Handbook, Second Edition WIPO

This proceedings volume contains papers that have been selected after review for oral presentation at ROMANSY 2016, the 21th CISM-IFTOMM Symposium on Theory and Practice of Robots and Manipulators. These papers cover advances on several aspects of the wide field of Robotics as concerning Theory and Practice of Robots and Manipulators. ROMANSY 2016 is the 21st event in a series that started in 1973 as one of the first conference activities in the world on Robotics. The first event was held at CISM (International Centre for Mechanical Science) in Udine, Italy on 5-8 September 1973. It was also the first topic conference of IFTOMM (International Federation for the Promotion of Mechanism and Machine Science) and it was directed not only to the IFTOMM community.

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