

Case Study Lanxess

Surveying a wide variety of disciplines, this fully-revised 7th edition offers a sophisticated and engaging treatment of the rapidly expanding field of organizational communication. Places organizations and organizational communication within a broader social, economic, and cultural context. Applies a global perspective throughout, including thoughtful consideration of non-Western forms of leadership, as well as global economic contexts. Offers a level of sophistication and integration of ideas from a variety of disciplines that makes this treatment definitive. Updated in the seventh edition: Coverage of recent events and their ethical dimensions, including the bank crisis and bailouts in the US and UK. Offers a nuanced, in-depth discussion of technology, and a new chapter on organizational change. Includes new and revised case studies for a fresh view on perennial topics, incorporating a global focus throughout. Online Instructors' Manual, including sample syllabi, tips for using the case studies, test questions, and supplemental case studies.

Brand Building and Marketing in Key Emerging Markets
A Practitioner's Guide to Successful Brand Growth in China, India, Russia and Brazil
Springer

Wine is a widely consumed beverage due to its unique and pleasant sensory properties. Wine is composed of more than one thousand chemical compounds (e.g., alcohols, esters, acids, terpenoids, phenolic compounds, flavonoids, anthocyanins, minerals, and vitamins, among others) resulting from several chemical and biochemical processes. Microextraction techniques in tandem with high-resolution analytical instruments have been applied by wine researchers to expand the knowledge of wine's chemical composition with the purposes of improving wine quality, supporting winemaker decisions related to the winemaking process, and guaranteeing the authenticity of wine. As a result, we proposed "Chemical/Instrumental Approaches to the Evaluation of Wine Chemistry" as a topic for a Special Issue in *Molecules*. This Special Issue aims to provide an update on state-of-the-art extraction procedures (e.g., solid-phase microextraction (SPME)) and analytical tools (e.g., nuclear magnetic resonance (NMR), inductively coupled plasma mass spectrometry (ICP-MS), ultra-performance liquid chromatography tandem mass spectrometry (UPLC-MS/MS)), emphasizing their use as suitable platforms for the establishment of the chemical composition of wine (volatonic profile, antioxidants, phenolic pattern, and elemental composition, among others). Information related to wine sensorial properties, contaminants, authenticity, and chemometric tools used for data treatment are described in this Issue.

Data is the foundation of the digital economy. Industry 4.0 and digital services are producing so far unknown quantities of data and make new business models possible. Under these circumstances, data quality has become the critical factor for success. This book presents a holistic approach for data quality management and presents ten case studies about this issue. It is intended for practitioners

dealing with data quality management and data governance as well as for scientists. The book was written at the Competence Center Corporate Data Quality (CC CDQ) in close cooperation between researchers from the University of St. Gallen and Fraunhofer IML as well as many representatives from more than 20 major corporations. Chapter 1 introduces the role of data in the digitization of business and society and describes the most important business drivers for data quality. It presents the Framework for Corporate Data Quality Management and introduces essential terms and concepts. Chapter 2 presents practical, successful examples of the management of the quality of master data based on ten cases studies that were conducted by the CC CDQ. The case studies cover every aspect of the Framework for Corporate Data Quality Management. Chapter 3 describes selected tools for master data quality management. The three tools have been distinguished through their broad applicability (method for DQM strategy development and DQM maturity assessment) and their high level of innovation (Corporate Data League). Chapter 4 summarizes the essential factors for the successful management of the master data quality and provides a checklist of immediate measures that should be addressed immediately after the start of a data quality management project. This guarantees a quick start into the topic and provides initial recommendations for actions to be taken by project and line managers. Please also check out the book's homepage at <http://www.cdq-book.org/>

Higher education is increasingly becoming an important factor in determining the success of the migration process from the individual point of view. TO the sending countries, the migration of its human capital may be associated with high social costs as their scarce resources are spent on individuals who will later be productive elsewhere. THE hypothesis of this study is that there is a positive social return on an investment in higher education even if the educated people (skilled workers) choose to out-migrate. FURthermore, a deliberate policy aimed at providing a surplus of higher education graduates can be seen as an export strategy leading to positive social returns to the country practising it. THE study attempts to evaluate the net result of an individual s out-migration to the sending country via a cost-benefit approach.

This book reviews the assessment of industrial biotechnology products and processes from a sustainable perspective. Industrial Biotechnology is a comparably young field which comes along with high expectations with regard to sustainability issues. These stem from the promise of reducing greenhouse gas emissions and replacing fossil resources in the near or later future and using green technology, i.e. more environmentally friendly technologies. The intended economic, ecological and social benefits, however, need to be proven, resulting in a variety of challenges, both from a methodological and application point of view. In this book, specific assessment and application topics of industrial biotechnology are addressed, highlighting challenges and solutions for both developers and users of assessment methods. In twelve chapters, experts in

their particular fields define the scope, characterize industrial biotechnology and show in their contributions the state of the art, challenges and prospects of assessing industrial biotechnology products and processes. The chapter 'Societal and Ethical Aspects of Industrial Biotechnology' of this book is available open access under a CC BY 4.0 license at link.springer.com

Corporate boards play a central role in corporate governance and are thus regulated in the corporate law and corporate governance codes of all industrialized countries. Yet while there is a common core of rules on the boards considerable differences remain. These differences depend partly on shareholder structure, partly on historical, political and social developments and especially employee representation on the board. More recently, in particular with the rise of the international corporate governance code movement, there is a clear tendency towards convergence, at least in terms of the formal provisions of the codes. This book analyses the corporate boards, their regulation in law and codes and their actual functioning in ten European countries (Belgium, France, Germany, Italy, the Netherlands, Poland, Spain, Sweden, Switzerland and the United Kingdom). It offers the most up to date practical and analytical information on boards in Europe by leading company law experts. The issues addressed include: board structure, composition and functioning (one tier v. two tier, independent directors, expertise and diversity, separating the chair and the CEO functions, information streams, committees, voting and employee representation); enforcement by liability rules (in particular conflicts of interest), incentive structures (remuneration) and shareholder activism.

Seminar paper from the year 2006 in the subject Business economics - Business Management, Corporate Governance, grade: 1,3, University of Applied Sciences Essen, course: International Management, 74 entries in the bibliography, language: English, abstract: During upswing or boom phases, companies tend to diversify their products and services either by acquisitions or by the foundation of subsidiaries active in different businesses. As the market situation or the overall economic situations change, companies have to adapt their strategy and structure to the current market. If there are changes in the general market situation, e.g. by the entry of new competitors, companies might need to restructure to be able to compete. In times of economic downturns, most companies need to restructure due to economic problems and high in-house costs, caused by high complexity and low transparency within the company. Moreover, there seems to be a change in paradigms in the market. Whereas in the 60's (in the US) conglomerates were a prominent way to increase the company value, the current market pays no premium for being a large company. Since the 80's in the US and the late 90's in Western Europe, shareholder value rather is increased by a focused approach on core markets and selling or spinning-off the side-businesses. Major spin-offs were conducted in Western Europe during the recent years, e.g. the spin-off of Infineon from Siemens in 1999 which was followed by a listing of Infineon at the Frankfurt Stock Exchange

in 2000, the spin-off of Hypo Real Estate from HypoVereinsbank in 2003, freeing the HypoVereinsbank from their difficult real estate financing business and, against the odds, lead to a successful performance of Hypo Real Estate at the Stock Market⁷ or the spin-off of Lanxess from Bayer in 2005. Looking at the current development of the capital market, European conglomerates seem all to work on their restructuring and on their focus on a certain area⁸. Recently announced or publicly evaluated transactions include e.g. MAN selling the majority of its printing machine division to Allianz Capital Partners, Linde evaluating the sale of their fork-lift division, Electrolux envisaging the spin-off and listing of their outdoor division in the company „Husqvarna“, to which shareholders consented in April 2006. In the course of this paper, we will evaluate the motives and value drivers of a spin-off with view on the parent company, the spin-off and the capital market including investors and bondholders.

Daten sind die strategische Ressource des 21. Jahrhunderts. Es findet kein Geschäftsprozess, keine Kommunikation zwischen Geschäftspartnern, keine Wertschöpfung statt, ohne dass die involvierten Personen, Maschinen und IT-Systeme Daten nutzen, erzeugen oder verändern. Trends wie die Digitalisierung, Industrie 4.0 und Social Media tragen ebenfalls dazu bei, dass Datenmanagement zu einer Kernkompetenz für erfolgreiche Unternehmen dieser Zeit geworden ist. Damit Daten ihren ganzen Wert entfalten können, müssen sie stets in angemessener Qualität zur Verfügung stehen. Dies gilt besonders für Stammdaten, die zentralen Geschäftsobjekte eines Unternehmens. Dieses Buch zeigt einen ganzheitlichen Ansatz zum qualitätsbewussten Management von Stammdaten auf und richtet sich damit sowohl an Praktiker als auch an die Wissenschaft. Das „Framework für Stammdatenqualitätsmanagement“ wurde im Rahmen des „Competence Center Corporate Data Quality“ der Universität St. Gallen seit dem Jahr 2006 gemeinsam mit Unternehmen aus unterschiedlichen Industrien in zahlreichen praktischen Anwendungen entwickelt und verbessert. Neben den theoretischen Grundlagen räumt das Buch der praktischen Sicht mit 10 Fallstudien großen Raum ein, die erfolgreich durchgeführte Datenqualitätsprojekte praxisnah aufbereiten. Schließlich führt das Buch noch Methoden und Werkzeuge für das Datenqualitätsmanagement auf, die (Stamm-)datenmanager bei Projekten im eigenen betrieblichen Umfeld unterstützen können.

This is one of the first books to probe deeply into the art and science of branding industrial products. The book comes at a time when more industrial companies need to start using branding in a sophisticated way. It provides the concepts, the theory, and dozens of cases illustrating the successful branding of industrial goods. It offers strategies for a successful development of branding concepts for business markets and explains the benefits and the value a business, product or service provides to industrial customers. As industrial companies are turning to branding this book provides the best practices and hands-on advice for B2B

brand management.

The Art of Intelligence equips managers with essential tools and best practices to establish and improve Intelligence within the company. Johannes Deltl has discovered that, while each global organization is different, the framework that these organisations apply to build successful Intelligence is the same. The book is written in a very practical, 'hands on' approach with numerous tips and tricks of the trade. It presents case studies and examples of over 40 companies such as Johnson Controls, Deutsche Telekom, Metro, Lanxess, Star Alliance, Roland Berger Strategy Consultants. Praise about the book Intelligence is one of the most impactful differentiators for any successful company. 'The Art of Intelligence' provides an easy-to-follow approach to Intelligence; it bridges elegantly from the strategic importance to the practical application of Intelligence in your company. This book keeps you thinking. Christian Mezger, SVP Corporate Finance, Ciber In his recent book the Art of Intelligence, Johannes talks about the WHY and the HOW companies that want to win in an ever faster changing environment need to focus on managing intelligence in order to anticipate competitors' moves or even design the future. The book is very well structured and interesting cases help the reader understand how the theory can be implemented into real business life. Stephan Cypionka, Marketing Director, Coca Cola Argentina Johannes Deltl's book The Art of Intelligence goes beyond the Intelligence Cycle. Case examples from 40 companies illustrate how theory can be implemented in practice, with an eye on success stories and pitfalls. Clearly written by an Intelligence practitioner, the book is suitable for managers and academics alike. Stoyan Kenderov, Head of mobile and social, Intuit 'The Art of Intelligence' from Johannes pulls together a 30,000 foot compendium of the why, what, how and what now of market intelligence for those starting out. It represents an authority on leveraging IT as well as outsourcing and lays crumbs to source additional reading from other leading authorities. Johannes brings to life each of the steps in the intelligence process by using examples from leading companies from a variety of dynamic industries as well as entire chapter dedicated to how they have positioned intelligence to survive in the most turbulent of industries. Thank you Johannes for the 'Art of Intelligence'. Andrew Beurschgens, Head Market Intelligence, Market & Customer Insight, Everything Everywhere

These proceedings represent the work of contributors to the 16th European Conference on Innovation and Entrepreneurship (ECIE 2021), hosted by ISCTE Business School, Instituto Universitário de Lisboa, Portugal on 16-17 September 2021. The Conference Chair is Dr. Florinda Matos and the Programme Co-Chairs are Prof Maria de Fátima Ferreiro, Prof Álvaro Rosoi and Prof Isabel Salavisa all from Instituto Universitário de Lisboa, Portugal. ECIE is a well-established event on the academic research calendar and now in its 16th year, the key aim remains the opportunity for participants to share ideas and meet the people who hold them. The conference was due to be held at Instituto Universitário de Lisboa,

Portugal, but due to the global Covid-19 pandemic it was moved online to be held as a virtual event. The scope of papers will ensure an interesting two days. The subjects covered illustrate the wide range of topics that fall into this important and ever-growing area of research. The keynote presentation is given by Soumodip Sarkar, Vice-Rector, from University of Évora, Portugal on the topic of Social Intelligence. The second day of the conference will open with an address by Professor Vittorio Loreto, Sapienza University of Rome, Italy, who will talk about Exploring the adjacent possible: play, anticipation, surprise.

This book is a sharing of research on Foreign Direct Investment scenario of India, making it specific to the highest contributing sector i.e., Services, followed by the case study of German investment which also holds a specific place in the investment environment. Emphasis has been placed on simplicity and practicality through the use of statistical and econometric tools and techniques. This ensures the worth and applicability of the book for a large spectrum of people. The target audience being the researchers, academicians, students, investors, as well as the policymakers, who are associated directly or indirectly with the investment environment. Further those who wanted to have an insight about foreign investment through step by step are assured to learn something new here.

Carlo Manuel Drauth explores under which conditions multinational enterprises systematically manage their human rights impacts with a view to preventing corporate human rights violations across their operations. Using a multi-method research design and focusing on the 30 largest German firms, the author finds that it is neither institutional forces (e.g., standards or norms) nor stakeholder pressures (e.g., from NGOs or trade unions) alone, but their combined effect that leads to a systematic human rights management at the firm-level. This finding informs a new theoretical approach to the study of CSR, integrating institutional and stakeholder theories while taking an explicit value chain perspective.

Through a range of articles, this book explores the changing nature of risk in contemporary African societies. It provides a valuable addition to the current debate on the concept of risk, which has traditionally been skewed in favor of a European historical experience. The contributions illustrate that technological hazards, pollution, and climate change - as well as the introduction of new forms of insurance and the restructuring of civil society - are just some of the recent developments that invite us to be skeptical of prevailing notions of risk in the African context. The reader is encouraged to move away from focusing on the vulnerability of Africa as a pre-modern society to consider more localized and contemporary perspectives of risk. In exploring new ways of conceptualizing risk in Africa, the book addresses the challenge of making theoretical and methodological advances in risk research relevant to understanding the processes of social change on the continent. (Series: Articles on African Studies / Beitrage zur Afrikaforschung - Vol. 51)

This book combines scientific research and professional insights on brand and marketing strategy development in major emerging growth markets. It presents a

detailed outline of the Brazil, Russia, India and China (BRIC) markets to understand their cultural and socio-economic complexity. With emerging markets at the center, major paradigm shifts are explained such as 'one world strategies'. The author reveals the importance of market-driven positioning that uses local differences and consumer preferences as opportunities without contradicting a corporation's global positioning. Professionals in international marketing and business strategists will find the hands-on guidance to 25 new success strategies particularly useful. This book is also a must-read for people dealing with branding and marketing in a 'glocalized' world.

The book presents about 100 current examples of how energy and materials can be saved in manufacturing companies. They serve to show which measures can be used in modern companies to exploit the potential for resource efficiency. The book is aimed at practitioners in companies and consulting firms, but is also suitable for the university sector as a practical introduction to the topic of resource efficiency. The materials used account for almost 43 percent of the costs of an average industrial company in Germany. Personnel costs, on the other hand, are only 22 percent, while energy costs are as low as 2 percent. If a company wants to save costs, above all it must consider the use of materials and produce in a resource-efficient manner. This simultaneously relieves the environment and reduces dependence on scarce raw materials. The implementation of resource efficiency is not easy. There are indeed numerous starting points in production, often in process innovations or in product development. However, only a few companies publish their measures and savings potentials. In practice, this means that there are often no learning examples in practice, but some of them are explicitly listed in this work. As you can see, resource efficiency in production and products can also be seen as a success factor for many companies. In the project 100 Pioneers in Efficient Resource Management, committed companies from Baden-Wuerttemberg are showing their solutions. The project was carried out by a competent team from the Pforzheim University and the State Agency for Environmental Technology. Leading trade associations in Baden-Württemberg have supported it.

This fifth international MERL Oilfield Engineering with Polymers conference, organised jointly with Rapra Technology, provided a unique forum to discuss the latest developments in the selection, qualification and performance of polymeric materials. It brought together operators, contractors, equipment and component suppliers, materials suppliers and research organisations involved with polymers and their use in oil & gas sector applications.

This edited collection examines contemporary directions in geographical research on South Africa. It encompasses a cross section of selected themes of critical importance not only to the discipline of Geography in South Africa, but also of relevance to other areas of the Global South. All chapters are original contributions, providing a state of the art research baseline on key themes in physical, human and environmental geography, and in understanding the

changing geographical landscapes of modern South Africa. These contributions set the scene for an understanding of the relationships between modern South Africa and the wider contemporary world, including issues of sustainable development and growth in the Global South.

In the last decade, there has been an influx in the development of new technologies for deep space exploration. Countries all around the world are investing in resources to create advanced energetic materials and propulsion systems for their aerospace initiatives. Energetic Materials Research, Applications, and New Technologies is an essential reference source of the latest research in aerospace engineering and its application in space exploration. Featuring comprehensive coverage across a range of related topics, such as molecular dynamics, rocket engine models, propellants and explosives, and quantum chemistry calculations, this book is an ideal reference source for academicians, researchers, advanced-level students, and technology developers seeking innovative research in aerospace engineering.

'Beat the Odds' evolved from a study of a broad pool of companies across a wide spectrum of performance over an extended period of time. It clearly illustrates why great organisations slip from leader to follower to road kill and how organisations can beat the odds and avoid this fate.

Industrial tourism presents opportunities, both in terms of income and as a tool of management, for individual firms who open their doors - and consequently their local regions - to the public. But how can these opportunities be organised in a way that enables both the city and the enterprise to take advantage? This book analyzes the conditions for successful industrial tourism development using case studies of Wolfsburg, Cologne, Pays de la Loire, Turin, Shanghai and Rotterdam, and makes astute recommendations for cities and companies with ambitions in this field.

A prevalent and increasingly important issue, arsenic removal continues to be one of the most important areas of water treatment. Conventional treatment plants may employ several methods for removing arsenic from water. Commonly used processes include oxidation, sedimentation, coagulation and filtration, lime treatment, adsorption onto sorptiv

This perceptive book provides an exploratory, explanatory and normative account of the EU Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), and its regulator, the European Chemicals Agency (ECHA). È W

The stories of residents of low-income communities across the country who took action when pollution from heavy industry contaminated their towns. Across the United States, thousands of people, most of them in low-income or minority communities, live next to heavily polluting industrial sites. Many of them reach a point at which they say "Enough is enough." After living for years with poisoned air and water, contaminated soil, and pollution-related health problems, they start to take action—organizing, speaking up, documenting the effects of pollution on

their neighborhoods. In *Sacrifice Zones*, Steve Lerner tells the stories of twelve communities, from Brooklyn to Pensacola, that rose up to fight the industries and military bases causing disproportionately high levels of chemical pollution. He calls these low-income neighborhoods “sacrifice zones.” And he argues that residents of these sacrifice zones, tainted with chemical pollutants, need additional regulatory protections. *Sacrifice Zones* goes beyond the disheartening statistics and gives us the voices of the residents themselves, offering compelling portraits of accidental activists who have become grassroots leaders in the struggle for environmental justice and details the successful tactics they have used on the fenceline with heavy industry.

This book describes in depth knowledge of designing and operating reverse osmosis (RO) systems for water desalination, and covers issues which will effect the probability for the long-standing success of the application. It also provides guidelines that will increase the performance of seawater RO desalination systems by avoiding errors in the design and operation and suggest corrective measures and troubleshooting of the problems encountered during RO operation. This book also provides guidelines for the best RO design and operational performance. In the introductory section, the book covers the history of RO along with the fundamentals, principles, transport models, and equations. Following sections cover the practical areas such as pretreatment processes, design parameters, design software programs (WAVE, IMSDesign, TORAYDS2, Lewapplus, ROAM Ver. 2.0, Winflows etc.), RO performance monitoring, normalization software programs (RODataXL and TorayTrak), troubleshooting as well as system engineering. Simplified methods to use the design software programs are also properly illustrated and the screenshots of the results, methods etc. are also given here along with a video tutorial. The final section of the book includes the frequently asked questions along with their answers. Moreover, various case studies carried out and recent developments related to RO system performance, membrane fouling, scaling, and degradation studies have been analyzed. The book also has several work out examples, which are detailed in a careful as well as simple manner that help the reader to understand and follow it properly. The information presented in some of the case studies are obtained from existing commercial RO desalination plants. These topics enable the book to become a perfect tool for engineers and plant operators/technicians, who are responsible for RO system design, operation, maintenance, and troubleshooting. With the right system design, proper operation, and maintenance program, the RO system can offer high purity water for several years. Provides guidelines for the optimum design and operational performance of reverse osmosis desalination plants. Presents step-by-step procedure to design reverse osmosis system with the latest design software programs along with a video tutorial Analyzes some of the issues faced during the design and operation of the reverse osmosis desalination systems, suggest corrective measures and its troubleshooting. Discusses reverse osmosis desalination

pretreatment processes, design parameters, system performance monitoring, and normalization software programs Examines recent developments related to system performance, membrane fouling, and scaling studies Presents case studies related to commercial reverse osmosis desalination plants Perfect training guide for engineers and plant operators, who are responsible for reverse osmosis system design, operation and maintainance

- Technical explanation of composite materials in vehicle design and manufacture
- Covers all phases of composites design, formulation, fabrication, and testing
- Features hundreds of case studies and hard-to-find formulas and analytical data
- Detailed information on resins, preforms, lightweighting, biobased materials

----- This technical book provides a comprehensive explanation of how advanced composite materials, including FRPs, reinforced thermoplastics, carbon-based composites and many others are designed, processed and utilized in exterior, interior, under-the-hood, structural, semi-structural and non-structural components in passenger cars, performance cars, trucks, motorbikes, and mass transit vehicles. The book clarifies how the material properties of composites can be optimized to decrease weight, expand design options, improve crashworthiness, and reduce fuel consumption in response to CAFE and other regulations. The many case studies and equation-based analyses in this book are intended to assist engineers and others in the selection of materials and the fabrication of vehicle parts. Table of Contents: CHAPTER 1: INTRODUCTION 1.1 Introduction 1.2 History and Legislative Actions 1.3 The Case for Lightweighting 1.4 Technological Barriers 1.5 Advantages and Opportunities 1.6 Integral Factors 1.7 Summary 1.8 References CHAPTER 2: POLYMER RESINS, ADDITIVES AND SANDWICH CORES FOR AUTOMOTIVE, MASS TRANSIT AND HEAVY TRUCKS 2.1 Introduction 2.2 Polymer Resins: Thermoset and Thermoplastic 2.3 Thermoset Polymer Composites 2.4 Thermoplastic Resins 2.5 Additives 2.6 Structural Foams and Core Materials 2.7 Summary 2.8 References CHAPTER 3: REINFORCEMENTS FOR AUTOMOTIVE AND TRANSPORTATION APPLICATIONS 3.1 Reinforcing Fibers 3.2 Reinforcement Length Scales and Forms 3.3 Glass Fibers 3.4 Carbon or Graphite Fibers 3.5 Aramid (Kevlar") Fibers 3.6 High-Strength Polyolefin Fibers 3.7 Basalt Fibers 3.8 Summary 3.9 References CHAPTER 4: MATERIAL FORMS FOR AUTOMOTIVE, HEAVY TRUCKS AND MASS TRANSIT 4.1 Need for Intermediate Material Forms 4.2 Preforming 4.3 Intermediate Material Form for Thermoplastic Composites 4.4 Summary 4.5 References CHAPTER 5: DISCONTINUOUS REINFORCEMENT-BASED PROCESSES FOR AUTOMOTIVE AND TRANSPORTATION APPLICATIONS 5.1 Discontinuous Forms 5.2 Glass Mat Thermoplastic Composites (GMT) 5.3 Long Fiber Thermoplastics (LFT) 5.4 Sheet Molding Compound (SMC) 5.5 Compression Molding 5.6 Programmable Powdered Preform Process (P4) 5.7 Structural Foam Molding 5.8 Other Application Case Studies with Discontinuous Fiber Composites 5.9 Exterior 5.10 Interior 5.11

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THE WBF BOOK SERIES--ISA 88 Implementation Experiences features: * How to set up flexible Batch recipes with ISA 88 protocols * How to upgrade an existing legacy system with ISA 88 features * How to make best of use of the ISA protocols in complex assembly processes * Case studies of implementing ISA 88 for actual applications in chemical processes, software migration, and other real industry challenges The ISA (International Society of Automation) standards 88 and 95, respectively [] are manufacturing procedural and operational standards established in the late 1990s and periodically updated by the governing bodies responsible for them--the ISA and WBF (World Batch Forum). The two standards and their components set up protocols and uniform specifications for batch control systems, including types of control equipment, design of control systems

and interpretation of batch control data, as well as integrating such processes with the general manufacturing business enterprise. In Volume 2 of the series, the ISA 88 is explained in terms of use in batch processing or semi-batch processing, both when setting up a new ISA 88 system or retrofitting an existing system with ISA 88 "recipes." The ISA 88 and 95 standards have been around (and periodically updated) for nearly 20 years now, but little really helpful has been published on how to put those standards into use, particularly from a pragmatic, real-life experience point of view. The four books in this new series will do exactly that: explain to the manufacturing engineer, the controls engineers, and the industrial planner and manager alike how these standards translate into improved batch and continuous process operations--and ultimately how those operations can be integrated and automated into the general business operations (accounting, inventory, customer relations, product development) of the manufacturing concern.

This book analyzes China's foreign technology acquisition activity and how this has helped its rapid rise to superpower status. Since 1949, China has operated a vast and unique system of foreign technology spotting and transfer aimed at accelerating civilian and military development, reducing the cost of basic research, and shoring up its power domestically and abroad—without running the political risks borne by liberal societies as a basis for their creative developments. While discounted in some circles as derivative and consigned to perpetual catch-up mode, China's "hybrid" system of legal, illegal, and extralegal import of foreign technology, combined with its indigenous efforts, is, the authors believe, enormously effective and must be taken seriously. Accordingly, in this volume, 17 international specialists combine their scholarship to portray the system's structure and functioning in heretofore unseen detail, using primary Chinese sources to demonstrate the perniciousness of the problem in a manner not likely to be controverted. The book concludes with a series of recommendations culled from the authors' interactions with experts worldwide. This book will be of much interest to students of Chinese politics, US foreign policy, intelligence studies, science and technology studies, and International Relations in general.

"Singapore is known internationally for its successful economic development. Key to its economic successes is a variety of policies put into place over the past 50 years since its independence. Singapore's Economic Development: Retrospection and Reflections provides a retrospective analysis of independent Singapore's economic development, from the perspective of different policy domains each considered by different expert scholars in that particular field. The book is written by academic economists in a style that is accessible to non-experts. Each chapter includes reviews of past scholarship, current data on each policy area, and reflections on required or desirable future policy changes and outcomes"--

This contributed volume contains the research results of the Cluster of Excellence "Integrative Production Technology for High-Wage Countries",

funded by the German Research Society (DFG). The approach to the topic is genuinely interdisciplinary, covering insights from fields such as engineering, material sciences, economics and social sciences. The book contains coherent deterministic models for integrative product creation chains as well as harmonized cybernetic models of production systems. The content is structured into five sections: Integrative Production Technology, Individualized Production, Virtual Production Systems, Integrated Technologies, Self-Optimizing Production Systems and Collaboration Productivity. The target audience primarily comprises research experts and practitioners in the field of production engineering, but the book may also be beneficial for graduate students.

This text explores international business economics from a European perspective, dealing not only within business in Europe but with the external trading relationships of the EU and the position of European firms in a globalized economy. An extensive website provides lecturers with support material. Also available is a companion website with extra features to accompany the text, please take a look by clicking below - <http://www.palgrave.com/business/piggott/>

This book provides practising executives and academics with the theories and best practices to plan and implement the digital transformation successfully. Key benefits: an overview on how leading companies plan and implement digital transformation – interviews with chief executive officers and chief digital officers of leading companies – Bulgari, Deutsche Bahn, Henkel, Lanxess, L'Oréal, Unilever, Thales and others – explore lessons learnt and roadmaps to successful implementation research and case studies on the digitalization of small and medium-sized companies cutting-edge academic research on business models, organizational capabilities and performance implications of the digital transformation tools and insights into how to overcome internal resistance, build digital capabilities, align the organization, develop the ecosystem and create customer value to implement digital strategies that increase profits

Managing Digital Transformation is unique in its approach, combining rigorous academic theory with practical insights and contributions from companies that are, according to leading academic thinkers, at the forefront of global best practice in the digital transformation. It is a recommended reading both for practitioners looking to implement digital strategies within their own organisations, as well as for academics and postgraduate students studying digital transformation, strategy and marketing.

This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human–Computer Interaction; Ethics, Computers & Security; Health

Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications.

Environmental Technology and Innovations contains papers presented at the International Conference on Environmental Technology and Innovations (ICETI 2016, Ho Chi Minh City, Viet Nam, 23-25 November 2016). The book covers a wide range of topics within environmental engineering and technologies including: • General environmental engineering • Clean energy and sustainability • Water and wastewater management • Public health and environment. The application areas range from emerging pollutants of air, soil and water environment, remediation technologies, clean energy and sustainability of biofuels, waste to energy, water and wastewater management, public health and the environment, quality and safety of food production to environmental planning and management and policies for cities and regions. The papers cover both theory and applications, and are focused on a wide range of sectors and problem areas. Integral demonstrations of the use of reliability and environmental engineering are provided in many practical applications concerning major technological approaches. Environmental Technology and Innovations will be of interest to academics and professionals working in a wide range of industrial, governmental and academic sectors, including water and waste management, energy generation, fuel production and use, protection of natural heritage, industrial ecology, man health protection and policy making.

A comprehensive introduction to HRM for students who are new to the field, but who will be seeking employment in a global market, working with diverse colleagues and across international borders. Broken down into three parts covering Strategic Issues in HRM, HRM in Practice and HRM in Context, and weaving international and cross-cultural perspectives throughout, the text explores the ever-changing world of human resource management. The various theories, practices and debates that populate this field are examined, and the challenges and controversies that arise when theory meets practice are explored. The international dimensions of HRM, including cross-cultural working, diversity, equality and international business, have been considered throughout. Practical learning features have been included to help students develop skills they can apply to their course and in graduate employment. In the new edition, all chapters have been thoroughly updated and the authors have included an additional chapter on Digitization and Artificial Intelligence in HRM. The book is supported by a wide range of online resources and tools for both lecturers and students, including access to SAGE journal articles, chapter specific podcasts, SAGE video, PowerPoint slides, interactive multiple choice questions and SAGE Business Cases. Suitable for undergraduates and post-graduate students looking for a strategic and international perspective of HRM.

Presents roadmap to implementing next level supply management practices and strategies. This title outlines the critical success factors for leading your company to the next level in procurement practices and performance and provides a transformation model to improve bottom-line results.

This book presents the ways in which three key issues of the modern world – transformation, digitalisation and sustainability – may be combined for the greater good and highlights which activities may be designed to integrate these three directly linked paths. It is an experience-derived and evidence-based analysis of how sustainable

development impacts the transformation of the economy and how the business environment influences economic transformation in the light of the sustainable development principles. The book addresses the current challenges and shows how the economy can be transformed further in an organic way that meets the needs of society and the environment, through the use of digital technologies. The multidisciplinary approach to sustainability transformation is one of the core strengths of the book, as it emphasises the need for a holistic approach to the functioning of sustainable development ideas at the micro- and macro-levels. The authors present a fresh perspective, particularly around the regulations stimulating the sustainable development of enterprises, tax systems, and the allocation of capital. Moreover, the book brings together and makes available the results of the latest research on the subject, using a vast amount of primary evidence and both quantitative and qualitative methodology. The authors' insights go beyond the obvious effects of economic transformation and call attention to ways in which smart technology and digitalisation may help to achieve the Sustainable Development Goals. The book is directed first and foremost towards academics, researchers and students, but also professionals, who would like to expand their knowledge of sustainable development from a scientific perspective.

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