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R D Management Systems In Japanese Industry

Dipak R. Basu, Victoria Miroshnik



R D Management Systems In Japanese Industry:

R & D Management Systems in Japanese Industry Hajime Etō, Konomu Matsui, 1984 Interest in Japanese innovations leads to an interest in R D management systems and strategies in Japanese industry Since Japanese management and Japanese innovations differ from those of the West the R D management systems and strategies formation process may well be different in Japan than in the West Recognizing this difference will surely contribute to the methodological progress in the related disciplines and interdisciplinary approaches

Management of Software Engineering Innovation in Japan

Yasuo Kadono, 2015-10-14 This book assesses the achievements of the software engineering discipline as represented by IT vendors in Japan in order to deepen understanding of the mechanisms of how software engineering capabilities relate to IT vendors business performance and business environment from the perspective of innovation and engineering management Based on the concepts of service science and science for society the volume suggests how to improve the sophistication of services between the demand side i e IT user companies and the supply side i e IT vendors simultaneously The author and his colleagues developed a structural model including innovational paths such as service innovation product innovation and process innovation and a measurement model including the seven software engineering capabilities deliverables project management quality assurance process improvement research and development human resource development and customer contact Then they designed research on software engineering excellence and administered it with the Japanese Ministry of Economy Trade and Industry and Information Technology Promotion Agency Through statistical analyses of the results they found that human resource development and R D are significant fundamental conditions to improve the quality of the deliverables and that IT firms with high levels of deliverables derived from high levels of human resource development quality assurance project management and process improvement tend to sustain high profitability In addition they developed a measurement model based on Porter's five forces and Barney's resource based view A regression tree analysis suggested that manufacturer spin off vendors tend to expand business with well resourced R D whereas user spin off vendors tend to depend heavily on parent company demand

Japan's Software Factories

Michael A. Cusumano, 1991-05-16 Though Japan has successfully competed with U S companies in the manufacturing and marketing of computer hardware it has been less successful in developing computer programs This book contains the first detailed analysis of how Japanese firms have tried to redress this imbalance by applying their skills in engineering and production management to software development Cusumano focuses on the creation of software factories in which large numbers of people are engaged in developing software in cooperative ways i e individual programs are not developed in isolation but rather utilize portions of other programs already developed whenever possible and then yield usable portions for other programs being written Devoting chapters to working methods at System Developing Corp Hitachi Toshiba NEC and Fujitsu and including a comparison of Japanese and U S software factories Cusumano's book will be important reading for all people involved in software and computer technology

as well as those interested in Japanese business and corporate culture The Road to Quality Control Nicholas Fisher, Yutaka Tanaka, William Woodall, 2019-03-11 Professor Woodall's essay shows that this book represents a remarkable contribution even by today's standards because of its contemporary thinking about the relationship between the specific topic of SQC and the broader company context of Quality Management. It also demonstrates the remarkable awareness of at least some young US engineers in the post-war period about the vital role of Statistical Quality Control in establishing and maintaining a competitive position. The book reveals that there was unsuspected knowledge extant immediately post-war about the importance of Statistical Quality Control when appropriately applied in an industrial setting. It also helps to correct wide spread historical misconceptions about who specifically was responsible for helping Japanese industry get back on its feet post-war a task assigned to General Douglas MacArthur by President Truman and how MacArthur was indebted to Sarasohn.

The Global Automotive Industry Paul Nieuwenhuis, Peter Wells, 2015-08-10 The automotive industry is still one of the world's largest manufacturing sectors but it suffers from being very technology focused as well as being relatively short term focused. There is little emphasis within the industry and its consultancy and analyst supply network on the broader social and economic impacts of automobility and of the sector that provides it. The Global Automotive Industry addresses this need and is a first port of call for any academic, official or consultant wanting an overview of the state of the industry. An international team of specialist researchers both from academia and business review and analyse the key issues that make vehicle manufacturing still the world's premier manufacturing sector closely tied in with the fortunes of both established and newly emerging economies. In doing so it covers issues related to manufacturing both established practices as well as new developments issues relating to distribution, marketing and retail, vehicle technologies and regulatory trends and crucially labour practices and the people who build cars. In all this it explains both how the current situation arose and also likely future trajectories both in terms of social and regulatory trends as the technological, marketing and labour practice responses to those leading in many cases to the development of new business models.

Key features: Provides a global overview of the automotive industry covering its current state and considering future challenges. Contains contributions from international specialists in the automotive sector. Presents current research and sets this in an historical and broader industry context. Covers threats to the industry including globalization, economic and environmental sustainability. The Global Automotive Industry is a must have reference for researchers and practitioners in the automotive industry and is an excellent source of information for business schools, governments and graduate and undergraduate students in automotive engineering.

Telematics and Transport Behaviour Peter Nijkamp, Gerard Pepping, David Banister, 2012-12-06 A major strategy to reduce transport congestion and other social costs of transport is to ensure that travellers make the best decisions based on real time information. A wide range of technological systems have been developed to provide this information but little is known about how travellers actually respond to it. This book offers an overview of various transport telematics options and

provides an appropriate methodological framework followed by a presentation of results from actual applications of these telematics systems from a range of European countries in various transport sectors The empirical results are supplemented by analytical models and geographic information systems representations with a view on generalizing these findings and identifying the key parameters which determine user response **Advanced Software Applications in Japan** Edward A. Feigenbaum, Elaine Rich, Gio Wiederhold, Michael G Harrison, 1995-01-01 Advanced Software Applications in Japan

Japan--a State Strategy for the Twenty-first Century Yasuhiro Nakasone, 2002 Yasuhiro Nakasone one of the most highly regarded former prime ministers of Japan considers what should be Japan's strategic direction in the 21st century and argues for amendments to the constitution *Examining a New Automobile Global Manufacturing System* Amasaka, Kakuro, 2022-04-22 Industries have had to quickly and continuously adjust their strategies in recent years to remain relevant and desirable The automotive industry in particular has grown exponentially since its inception In order for this industry to evolve with the changing times and appropriately utilize emerging technologies further study on the new models and practices within the manufacturing process is required Examining a New Automobile Global Manufacturing System considers emerging automobile manufacturing practices for the strengthening of automobile corporate management in advanced companies and discusses key changes within corporate management strategies and management technology for the automotive industry Covering a range of critical topics such as production systems teaching strategies and design models this reference work is ideal for manufacturers managers researchers scholars practitioners academicians instructors and students Japanese Foreign Direct Investment and the East Asian Industrial System H. Horaguchi, K. Shimokawa, 2013-03-09 Japanese foreign direct investment has played a leading role in Asian economies for more than two decades This book describing the changing industrial dynamics after the Asian currency crisis in 1997 focuses on corporate strategies of Japanese automobile and electronics companies in Asian nations with detailed analysis of management issues and strategies from the viewpoint of both the home economy and the recipient host economies Among the cases presented are the global restructuring of the Korean automobile industry and the transfer of automotive technology to China via Taiwan Other studies from the electronics industry look at production sites in Malaysia backward integration in Singapore and forward integration in Hong Kong The contributions of specialists from Asia Europe and the United States collected here envision an ongoing process of globalization and provide valuable perspective and background for business management and East Asian studies Corporate Governance System Of Japanese Multinational Companies: A Quantitative Evaluation Dipak R Basu, Victoria Miroshnik, 2019-01-16 The purpose of this book is to study an unexplored area of corporate governance The authors examine whether the corporate governance system can be affected by organizational culture leader culture and the operations management system in general In addition they study how a specific corporate governance system can affect the organizational culture and operations management system and create a different type of leader culture This is an in depth

study of Japanese multinational companies and a comparison of their corporate governance system at home in Japan and in host countries like Britain India and Thailand The authors conducted a series of in depth interviews with the senior executives of major Japanese multinational companies to construct quantitative models for Japan Thailand and India and to analyze the aforementioned propositions *Practical Guide to International Standardization for Electrical Engineers* Hermann J. Koch,2017-05-02 *Practical Guide to International Standardization for Electrical Engineering* provides a comprehensive guide to the purpose of standards organizations their relationship to product development and how to use the standardization process for cost effective new product launch It covers major standardization organizations in the field of Electrical Engineering offering a general overview of the varying structures of national standardization organizations their goals and targets Key questions for standardization are answered giving the reader guidance on how to use national and international standards in the electrical business When shall the company start to enter standardization How to evaluate the standardization in relationship to the market success What are the interactions of innovations and market access What is the cost of standardization What are the gains for our experts in standardization Key features Provides guidance on how to use national and international standards in the electrical business Global active standardization bodies featured include IEEE IEC and CIGRE as well as regional organizations like CENELEC for Europe SAC for China DKE for Germany and ANSI for USA Case studies demonstrate how standardization affects the business and how it may block or open markets Explains the multiple connections and influences between the different standardization organizations on international regional or national levels and regulatory impact to the standardization processes Two detailed focused case studies one on Smart Grid and one on Electro Mobility show the influence and the work of international standardization The case studies explain how innovative technical developments are promoted by standards and what are the roles of standardization organizations are A valuable reference for electrical engineers designers developers test engineers sales engineers marketing engineers and users of electrical equipment as well as authorities and business planners to use and work with standards **Japanese Foreign Investments, 1970-1998** Dipak R. Basu,Victoria Miroshnik,2000 Drawing on numerous Japanese and non Japanese primary and secondary sources this highly informative book analyzes all aspects both domestic and international of foreign direct investment made by Japan s multinational corporations in Asia the European Union and the U S It covers the critical period from 1970 the point at which Japan s economy reached a level of global importance through 1998 the nadir of Japan s economic woes The book offers numerous perspectives to explain the changing characteristics of Japan s FDI practices over the period The text is well supported by some 50 figures and data tables compiled from both Japanese government ministries and multinational corporations *Japanese Foreign Investments, 1970-98* Dipak R. Basu,Victoria Miroshnik,2019-07-23 Drawing on numerous Japanese and non Japanese primary and secondary sources this highly informative book analyzes all aspects both domestic and international of foreign direct investment made by Japan s multinational corporations in Asia the

European Union and the U S It covers the critical period from 1970 the point at which Japan s economy reached a level of global importance through 1998 the nadir of Japan s economic woes The book offers numerous perspectives to explain the changing characteristics of Japan s FDI practices over the period The text is well supported by some 50 figures and data tables compiled from both Japanese government ministries and multinational corporations

COMPUTER INTEGRATED MANUFACTURING ALAVUDEEN, A., VENKATESHWARAN, N., 2008-08-18 This up to date and accessible text deals with the basics of Computer Integrated Manufacturing CIM and the many advances made in the field It begins with a discussion on automation systems and gives the historical background of many of the automation technologies Then it moves on to describe the various techniques of automation such as group technology and flexible manufacturing systems The text describes several production techniques for example just in time JIT lean manufacturing and agile manufacturing besides explaining in detail database systems machine functions and design considerations of Numerical Control NC and Computer Numerical Control CNC machines and how the CIM system can be modelled The book concludes with a discussion on the industrial application of artificial intelligence with the help of case studies in addition to giving network application and signalling approaches Intended primarily as a text for the undergraduate and graduate students of mechanical production and industrial engineering and management the text should also prove useful for the professionals in the field

Underground Space - The 4th Dimension of Metropolises, Three Volume Set +CD-ROM Jiri Bartak, Ivan Hrdina, Georgij Romancov, Jaromir Zlamal, 2007-05-11 The so called fourth dimension of a metropolis is the underground space beneath a city which typically includes structures such as tunnels which facilitate transport and provide gas water and other supplies Underground space may also be utilised for living working and recreational facilities and industrial storage These volumes focus on underg

The Secret of Apollo Stephen B. Johnson, 2003-04-29 Skillfully interweaving technical details and fascinating personalities Johnson tells the history of systems management in the U S and Europe Howard McCurdy author of *Space and the American Imagination* Winner of the Emme Award for Astronautical Literature from the American Astronautical Society How does one go about organizing something as complicated as a strategic missile or space exploration program Stephen B Johnson here explores the answer systems management in a groundbreaking study that involves Air Force planners scientists technical specialists and eventually bureaucrats Taking a comparative approach Johnson focuses on the theory or intellectual history of systems engineering as such its origins in the Air Force s Cold War ICBM efforts and its migration to not only NASA but the European Space Agency Exploring the history and politics of aerospace development and weapons procurement Johnson examines how scientists and engineers created the systems management process to coordinate large scale technology development and how managers and military officers gained control of that process Those funding the race demanded results Johnson explains In response development organizations created what few expected and what even fewer wanted a bureaucracy for innovation To begin to understand this apparent contradiction in terms we must

first understand the exacting nature of space technologies and the concerns of those who create them Johnson s in depth nuts and bolts manual sheds much light on a seldom studied secret of our recent space history Space Review A book for general readers interested in business and management issues in the space program Choice Competitiveness of the U.S. Software Industry United States. Congress. Senate. Committee on Commerce, Science, and Transportation,1992 *Making IT* Henry S. Rowen,William F. Miller,2007 This book is about the causes and major consequences of the rise of Asia in the IT industry It focuses on six regions countries Japan especially Fukuoka in the South Teheran Valley in Seoul Zhongguancun Science Park in Beijing Hsinchu Science based Park in Taiwan Singapore and Bangalore in India **Horizontal Innovation** Antonio Carlos Teixeira Álvares,José Carlos Barbieri,2021-12-30 Innovations do not have to be radical or limited to technological and product innovations The authors successfully build upon the notion that the creativity of all employees in an organization can be harnessed to improve overall productivity and give the organization a competitive advantage Not only do incremental innovations in sum have an enormous impact on a company s bottom line but they also have the power of engaging the entire workforce The authors explore how an horizontal innovation strategy can transform an organizational culture into one in which employees feel empowered and are inspired to think out of the box on a daily basis Hazel Gruenewald Professor in ESB Business School at Reutlingen University Horizontal Innovation is a new expression that aims to reflect a new situation in terms of innovation management The word horizontal carries both the organizational aspects represented by lean structures and preferably lateral communications and an approach in which the quantity of innovations from all organization s personnel is an essential element for its characterization This and other questions related to this new form of understanding innovations will be discussed in detail in the eight chapters of this book

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