

Product Development Performance Strategy Organization And Management In The World Auto Industry

This five-volume set clearly manifests the great significance of these key technologies for the new economies of the new millennium. The discussions provide a wealth of practical ideas intended to foster innovation in thought and, consequently, in the further development of technology. Together, they comprise a significant and uniquely comprehensive reference source for research workers, practitioners, computer scientists, academics, students, and others on the international scene for years to come.

Given the widespread, frequent use of social networks as a means for people to communicate and share their interests, it comes as no surprise that they have become an important tool for businesses and business networking. The Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions investigates the beginning of social networks and provides perspectives on how they can enhance business. This two-volume reference discusses the main issues, challenges, opportunities, and trends related to the range of new developments and applications in business social networking. Social networks and their integration in businesses are addressed using technological, organizational, managerial, and social perspectives with the aim of disseminating current developments, case studies, new integrated approaches, and practical solutions and applications.

Quality issues are occupying an increasingly prominent position in today's global business market, with firms seeking to compete on an international level on both price and quality. Consumers are demanding higher quality standards from manufacturers and service providers, while virtually all industrialized nations have instituted quality programs to help indigenous corporations. A proliferation in nation-wide and regional quality awards such as the Baldrige award and certification to ISO 9000 series are making corporations world-wide quality-conscious and eager to implement programs of continuous improvement. To achieve competitiveness, quality practice is a necessity and this book offers an exposition of how quality can be attained. The Handbook of Total Quality Management: Explores in separate chapters new topics such as re-engineering, concurrent engineering, ISO standards, QFD, the Internet, the environment, advanced manufacturing technology and benchmarking Discusses the views of leading quality practitioners such as Dering, Juran, Ishikawa, Crosby and Taguchi throughout the book Considers important strategies for quality improvement, including initiation and performance evaluation through auditing, re-engineering, and process and design innovations. With contributions from 47 authors in 13 different countries, the Handbook of Total Quality Management is invaluable as a reference guide for anyone involved with quality management and deployment, including consultants, practitioners and engineers in the professional sector, and students and lecturers of information systems, management and industrial engineering.

Enriching understanding of the current theoretical debate on project-based learning and R&D sourcing, 'Project-based Knowledge in Organizing Open Innovation' draws on innovation literature and knowledge-based perspectives to solve open problems in the relationship between knowledge development at project level and how firms organize product innovation combining in-house R&D activities with inbound open innovation. Through field research in different industrial settings (pharmaceutical, automotive and machine tools) and with complementary methodological approaches, this book provides empirical evidence on how project knowledge features affect sourcing decisions at firm level. Due to the emerging interest in the management literature on project-based organizations and on the relevance of project forms of organizing in a knowledge-based economy, this volume will appeal to scholars and students in business and management, in particular those in innovation management, organization theory and strategic management. Addressing the still open issue of how the firm level should be complemented by studies at the project level of analysis, this book provides theoretical and empirical arguments on the advantages of a more fine-grained level of analysis to understand how firms organize their innovation processes across boundaries.

An Explorative Case Study of Product Development Management in Some Finnish Companies

A Case of the High-Tech Sector

Performance Measurement of New Product Development Teams

The Myth and Political Reality

Product Development Performance

Handbook of Research on Leadership and Creativity

EBOOK: Product Design and Development

This book is intended as a tribute to Gianluca Spina, the influential and inspiring Professor of Business Management & Organization and Supply Chain Management at the School of Management of Politecnico di Milano, who very sadly passed away early in 2015. It brings together seven of his most important papers, published in renowned international journals, and supplements these papers with insightful commentaries from friends and colleagues who highlight key messages and values of enduring validity. The selected papers offer a clear sense of Spina's research journey over the years and cover the main research streams that distinguished his work. They have also been chosen on account of their high impact, as reflected by the number of citations received, and to represent the most important research collaborations that Spina had established within Italy and abroad. An introductory chapter relates his research to major developments in the field of Manufacturing and Supply Chain Strategy and also outlines the very important contribution that Gianluca Spina made to Management Education.

This Book Is Written By A Group Of International Experts On Concurrent Product And Process Design And Development. It Reflects Modern Trends And Approaches In Concurrent Engineering, With Particular Emphasis On Product Development Cycle. A Multi-Disciplinary Approach Is Adopted Throughout The Book. The Book Highlights Concurrent Engineering Organization; Enabling Tools And Techniques For Successful Concurrent Engineering; Manufacturing Strategy Decision Support Tools; Measure Of Manufacturing Performance For Concurrent Engineering; Economic Justification In A Concurrent Engineering Environment; Product Data Requirements In Concurrent Engineering. All These Features Make This Book An Extremely Valuable Reference Source For Practising Professionals And Engineering Students. A Number Of Prominent Scientists And Experts From Different Countries Have Jointly Worked To Compile The Chapters Of This Book Reflecting The Latest Developments And Modern Approaches To Concurrent Engineering.

This guide provides a comprehensive range of studies in successful product development in different industries

Managing Innovation is a three-part series covering contemporary technology and innovation management research areas. Each volume comprises key articles

from both the International Journal of Innovation Management and the International Journal of Innovation and Technology Management, published by World Scientific, and provides an international, disciplinary approach across its broad coverage of topics. Relevant for both academics and practitioners, this volume answers how organisations can develop innovative approaches from a perspective that encompasses technological advances, changes in the market and individual entrepreneurs.

Organization Design

Organizational, Managerial, and Technological Dimensions

Critical Challenges Facing International Technology-Based Firms

Intelligence, Discovery, Development

Global Industrial Experience

Handbook of Organizational Creativity

Product Development Practices and Their Organisational Information Requirements

This book explores factors which impact the viability and growth of business enterprises. In particular, the role of entrepreneurship, organizational learning, and business strategy OCo including licensing strategy OCo are considered in some detail. It presents fundamental thinking about business organization and provides the conceptual framework that scholars need to understand complex business organization, managerial processes, and competitive strategy. Managing new product development is a key area of management, straddling strategy, innovation and entrepreneurship and macro-organizational behaviour. All of the contributors in the Handbook of New Product Development are well-known and leading exponents to theory of New Product Development and to methods used in practice. They draw upon their experience and work to offer a comprehensive view of the challenges in managing the development of new products. Existing knowledge in the different topics is examined and the key management challenges, and the important gaps in our knowledge are discussed. Most of the chapters draw upon systematic interaction with companies and practice and this is presented in the examples and the case studies cited. The Handbook of New Product Development and Management surveys this area in the context of an overall framework that explains how aspects interact and combine in a successful NPD process. Each chapter outlines open questions and highlights needs for future research. *A comprehensive view of the challenges in managing the development of new products from well-known and leading contributors in the field * The first handbook to fill the gap for a high-level handbook which is valuable to both the academic/practitioner

This book presents an analysis and a critical discussion on performance management systems. It seeks to advance the current state of knowledge in the subject by introducing a holistic performance management system - the loosely coupled performance management system. This new system presents a framework to leverage the systemic relationships among already established performance management mechanisms. The author contends that loosely coupled performance management systems fulfill two different objectives, namely - they assure control and foster innovation. Such a comprehensive approach to management control provides managers of economic organizations with an overarching architecture for the design, diagnosis and effective use of performance management systems.

Michael D. Mumford

Proceedings of the 19th ISPE International Conference on Concurrent Engineering

Megaproject Organization and Performance

Handbook of New Product Development Management

Complex Systems Concurrent Engineering

Technological Know-How, Organizational Capabilities, and Strategic Management

Learning to Compete

Business Strategy and Enterprise Development in Competitive Environments

This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in São José dos Campos, São Paulo, Brazil, on the 16th - 20th of July 2007. It highlights the application of concurrent engineering to the development of complex systems.

This book presents a series of high performance product design (PD) and development best practices that can create or improve product development organization. In contrast to other books that focus only on Toyota or other individual companies applying lean IPD, this book explains the lean philosophy more broadly and includes discussions of systems engineering, design for X (DFX), agile development, integrated product development, and project management. The "Lean Journey" proposed here takes a value-centric approach, where the lean principles are applied to PD to allow the tools and methods selected to emerge from observation of the individual characteristics of each enterprise. This means that understanding lean product development (LPD) is not about knowing which tools are available but knowing how to apply the philosophy. The book comes with an accompanying manual with problems and solutions available on Springer Extras.

Technology-based firms continue to compete primarily on innovation, and one continuously required to present new solutions to an exacting market. As technological complexity

and specialization intensifies, firms increasingly need to integrate and co-ordinate knowledge by means of project groups, diversified organizations, inter-organizational partnerships, and strategic alliances. Innovation processes have progressively become interdisciplinary, collaborative, inter-organizational, and international, and a firm's ability to synthesize knowledge across disciplines, organizations, and geographical locations has a major influence on its viability and success. This book demonstrates how knowledge integration is crucial in facilitating innovation within modern firms. This book provides original, detailed empirical studies of prerequisites, mechanisms, and outcomes of knowledge integration processes on several organizational levels, from key individuals, projects, and internal organizations, to collaboration between firms. It stresses the need to understand knowledge integration as a multi-level phenomenon, which requires a broad repertoire of organizational and technical means. It further clarifies the need for strong internal capabilities for exploiting external knowledge, reveals how costs of knowledge integration affect outcomes and strategic decisions, and discusses the managerial implications of fostering knowledge integration, providing practical guidance and support for managers of knowledge integration in high technology enterprises.

The culmination of six years of research on how different manufacturing firms approach the development of new products, this book focuses on the impact of strategy, organization, & management on this critical component of business strategy. Product Development Performance concentrates on case studies from the world auto industry.

Drawing on extensive research on twenty companies in Europe, North America, & Japan, the authors identify the strategies, practices & capabilities that create superior performance in lead time, engineering productivity, & total product quality. The authors also show how their findings apply to product development in a wide range of industries.

Performance Management Systems

New Product Development Organization and Performance

Collaboration, Technology Innovation and Sustainability

The Toyota Product Development System

Combining Lean and Six Sigma for Peak Performance

Basic Concepts

Integrated Product Design and Manufacturing Using Geometric Dimensioning and Tolerancing

Advances in Strategic Management is dedicated to communicating innovative, new research that advances theory and practice in Strategic Management. This volume focuses on organization design and collaborative ways of working.

*'Operations Management: policy, practices, performance improvement' is the latest state-of-the-art approach to operations management. It provides new cutting edge input into operations management theory and practice that cannot be found in any other text. Discussing both strategic and tactical inputs it combines and balances service and manufacturing operations. * Cutting edge techniques accompanied by brand new case studies * Challenges standard approaches * Comprehensive coverage of strategic supply management * Critical sample questions to aid discussion * Reading lists and articles to support learning * Additional lecturer support material This outstanding author team is from the Operations Management Group at the University of Bath. Their expertise and knowledge is apparent in the text, and they bring to it their original research and experience in the field of operations management.*

Prof. Jürgens is renowned for his scientific work in such fields as human resources, work organization and organization of production and development, especially for automotive industries. In this publication, authors from different countries discuss models of integration in development and production as realized in practice. Of interest to those practitioners who need to develop benchmarks for their own development and production.

'Readers interest in an overview of important aspects of the strategy field will find this book a helpful volume to add to their shelves' - Administrative Sciences Quarterly This is a new overview of the strategy field, with internationally renowned contributors summarizing the latest directions and developments in strategic management theory in the context of their theoretical roots in economics, organization theory, and systems theory. The contributors outline the most promising new directions on the basis of a systemic treatment of paradigms or schools of thought in strategy: redrawing firm boundaries, developing dynamic capabilities and discovering viable strategy configurations. The volume will be an invaluable companion to advanced courses in strategy and management, used as a reader alongside case material and field studies. As well as providing a summary and evaluation of the different schools of thought in strategy, the volume offers a synthesis of the American and European approaches.

Handbook of Total Quality Management

New Product Development and Production Networks

Operations Management: Policy, Practice and Performance Improvement

Innovation Management and New Product Development for Engineers, Volume I

Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment

Business and Technology in the New Millennium

A Journey through Manufacturing and Supply Chain Strategy Research

Product Development Performance Strategy, Organization, and Management in the World Auto Industry Harvard Business Press

In Accelerated Product Development: Combining Lean and Six Sigma for Peak Performance, Clifford Fiore provides the blueprint for implementing the key elements for improving the product development process. His innovative and powerful work represents the first book to couple the proven concepts of Lean and Six Sigma with the engineering processes of product

development. His results, based on proven strategies and methodologies, enable companies to significantly reduce the time necessary to develop new products, dramatically reduce product cost, and improve product quality.

Designing effective organizations is a key challenge for companies in particular in the fast-moving business world of today. The late 1990s and early 2000s have seen multiple Organization Management innovations applied successfully such as Business Process Outsourcing, Shared Services and Offshoring. Advanced techniques such as Balanced Scorecards and integrated Planning Systems have become effective enablers for strategy execution. This book spans a framework from strategy definition and designing strategy-compliant organizations to monitoring effective implementation and Performance Management. On this journey basic principles of Organization Management are discussed in detail and at the same time state-of-the-art Best Practices are highlighted. A set of to-the-point case studies demonstrate how leading-edge companies make effective use of the concepts discussed. The approach of the book is of great use for both: students underway to become Organization Management practioners and experienced business experts in search of the latest thinking and tools to enhance Organizational Effectiveness - and everybody in between. Instant access to electronic ebook edition available. Click on Diesel eBooks logo to the left.

Megaproject Organization and Performance: The Myth and Political Reality delves into the complex world of organizing megaprojects and investigates the extent to which the performance of these projects could be traced back to their organizational structure. Through multiple case study research, including the London Olympic Park and Heathrow Airport Terminal 2, the authors show how megaprojects are unique in how they are organized. They explore core-periphery relationships between promotors who control strategic choices, and suppliers, the contracted experts who provide the actual resources to get the project done. The implications of these structural-performance relationships within a robust economy are then compared with railroad and highway development projects in the developing economies of Nigeria, Uganda, and India. This in-depth study brings a complementary perspective to megaproject literature and enables us to reconcile conflicting explanations for the regularity with which megaprojects miss performance targets. With pluralism at the core of the megaproject's organizational structure, the authors argue that megaprojects work best when accountability is shared and everyone has a stake in the final outcome.

Integrating People, Process, and Technology

Theory and Evidence from the Pharmaceutical Industry

Strategy, Organization, and Management in the World Auto Industry

Design, Diagnosis and Use

Concurrent Engineering In Product Design And Development

Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions

Managing Innovation: What Do We Know About Innovation Success Factors?

Treating such contemporary design and development issues as identifying customer needs, design for manufacturing, prototyping, and industrial design, Product Design and Development by Ulrich presents in a clear and detailed way a set of product development techniques aimed at bringing together the marketing, design, and manufacturing functions of the enterprise. The integrative methods facilitate problem solving and decision making among people with different disciplinary perspectives, reflecting the current industry toward designing and developing products in cross-functional teams. This book is the culmination of six years of research conducted at the Harvard Business School on how different manufacturing firms around the world approach the development of new products. The book is the impact of strategy, organization, and management on this critical component of business strategy.

This book explores the creation of 'learning networks' and sheds light on how they function:- real versus virtual forms of interaction, collaboration versus competition in the learning process, and joint value creation versus individual value appropriation in networks. Written by international experts in the field of global strategy. Contributions have been selected for their insights and interdependence between organizations and learning and networks. Looks at topics such as real versus virtual forms of interaction, collaboration versus competition in the learning process, and joint value creation versus individual value appropriation in networks.

With advancing information technology, businesses must adapt to more efficient structures that utilize the latest in robotics and machine learning capabilities in order to create optimal human-robot collaboration. However, there are vital rising concerns regarding the possible consequences of deploying artificial intelligence, sophisticated robotic technologies, automated vehicles, self-managing supply models, and their effects on business performance and culture, including how to sustain a supportive business culture and to what extent a strategic fit between human-robot collaboration in a business ecosystem. The Handbook of Research on Strategic Fit and Design in Business Ecosystems is a collection of innovative research that builds a futuristic view of evolving business ecosystems and a deeper understanding of business transformation processes in the new digital business era. Featuring research on topics such as cultural hybridization, Industry 4.0, and cybersecurity, this book is ideally designed for entrepreneurs, executives, managers, corporate strategists, economists, IT specialists, IT consultants, engineers, students, researchers, and academicians seeking to improve their understanding of future competitive practices with the adoption of robotic and information technologies.

Strategies, Algorithms and Tools

Rapid One-of-a-kind Product Development

Managing Product Development

Intelligent Knowledge-Based Systems

Project-Based Knowledge in Organizing Open Innovation

The Strategic Management of Intellectual Capital and Organizational Knowledge

The rapid pace of technological change and globalization of products, competition and services have conspired to place a new premium on innovation for

firms across the world. Although many variables influence creativity and innovation, the effective leadership of creative teams has proved especially important. This timely Handbook presents the state of the art for what leaders must do to lead creative teams and how they should do it. Increasingly, the challenge of management is to create and supply knowledge in order to sustain organizational performance. However, few books on management strategy have been written using this concept as a foundation. This unique volume adopts a knowledge-based approach that will complement and perhaps supplant other perspectives. Editors Nick Bontis and Chun Wei Choo look at the literature through the lens of strategic management and from the vantage point of organizational science. The thirty readings have been carefully selected and commissioned to provide the best literature available--from articles newly written for this book and from existing publications.

In today's fast changing, hyper-competitive environment, teamwork and co-operative working enhance the organisation's adaptive capability. The team, rather than the individual, is increasingly seen as the building block of organisations and a key source of competitive advantage. The International Handbook of Organisational Teamwork and Co-operative Working provides a clear focus on the psychological and social processes that can stimulate successful cooperation and teamwork. Michael West, Dean Tjosvold and Ken Smith have brought together the world's leading authorities from a range of social science disciplines to provide a contemporary review of established and emerging perspectives. Throughout the book, processes that both facilitate and obstruct successful cooperation and teamwork are detailed, alongside guidance on best practice and methodology. The challenging and alternative perspectives presented will inform future research and practice. The result is a systematic and comprehensive synthesis of knowledge from a range of disciplines that will prove invaluable to professionals, researchers and students alike. * A systematic and coherent framework which organizes and structures the knowledge in this field * An outstanding collection of authoritative "high profile" authors * Challenging, alternative perspectives that will stimulate and enlighten future research and practice * Selective, updated bibliographies of key literatures support every chapter, a valuable resource for students, trainers and practitioners

This book addresses the preparation and application of design layout analyses with concurrent engineering teams in six steps that capture design intent and add value to design process. It offers tools for eliminating costly trial-and-error approaches and deliver economically viable products. The authors discuss product design techniques that alleviate the constraints between product definition, manufacturing, and inspection, the prediction of variation effects on product function and manufacturing efficiency, functional inspection techniques that include CMM measurement, optical comparators, and surface plate and functional gaging, and more.

Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014)

Strategy, Organization and Performance Management

A Tribute to Professor Gianluca Spina

Handbook of Research on Strategic Fit and Design in Business Ecosystems

Product Innovation Management

From Basics to Best Practices

International Handbook of Organizational Teamwork and Cooperative Working

Whereas innovation has become part of daily language, in practice, realizing new product and new service development is a complex and daunting task for engineers, design engineers, managers, and those involved in other functions in organizations. Most books on innovation management approach this topic from a managerial or economic perspective; this text takes product design and engineering processes as starting point. To this purpose, it relates product design and engineering processes and their management to sources of innovation, collaboration with knowledge providers (for example, inventors and universities), and users. The managerial aspects get ample attention as well as the socioeconomic aspects in the context of product development. For this wide range of topics, the book provides both theoretical underpinning and practical guidance. Readers and students will benefit from this book by not only understanding the theory of innovation but also by the practical guidance it offers. The author uses diagrams, models, methods, and steps to guide readers to a better understanding of innovation projects. The link to theory make the book valuable to practitioners as well as engineering students.

The 5th International Asia Conference on Industrial Engineering and Management Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Xi'an Jiaotong University. The conference aims to share and disseminate information on the most recent and relevant researches, theories and practices in industrial and system engineering to promote their application in university and enterprises.

The CE Conference series is organized annually by the International Society for Productivity Enhancement (ISPE) and constitutes an important forum for international scientific exchange and collaborative enterprise engineering. These international conferences attract a significant number of researchers, industrialists and students, as well as government representatives. The recent advances in concurrent engineering research and applications. Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment. The 19th ISPE International Conference on Concurrent Engineering contains papers accepted, peer reviewed and presented at the annual conference held at the University of Applied Sciences, Germany, from 3rd-7th of September 2012. This covers a wide range of cutting-edge topics including: Systems Engineering and Innovation Design for Sustainability Knowledge Engineering Management Managing product variety Product Life-Cycle Management and Service Engineering Value Engineering

Rapid One-of-a-kind Product Development discusses research in the development of new enabling technologies for small and medium companies. Scientific advancements presented include data modelling scheme to model product design, manufacturability and knowledge under a common data object; customised product development in a distributed environment; and

methods for the optimal production of a wide variety of customised products, taking into consideration all of the possible changes from customers and the uncertainties in manufacturing. It includes research towards a computer aided customer interface, which allows customer requirements and changes to be processed and integrated with technical designs in real time. It covers concurrent CAD methods and algorithms; and product modelling and system integration technologies. The reader will learn how to:

- translate customer requirements to technical designs and innovative products to meet customer requirements and expectations;
- evaluate and optimise a project design;
- design production systems and use them efficiently; and
- manage the production of customised products.

Rapid One-of-a-kind Product Development demonstrates how to develop new methods, tools and algorithms to address the problems in a mass customisation environment. It is a valuable source of information for researchers and engineers in the fields of design and manufacturing.

Knowledge Integration and Innovation

A Practical View

The Lean Product Design and Development Journey

Rethinking Strategy

Strategic Networks

Product Development Performance

Accelerated Product Development

Using the example of four Taiwanese brand-name multinational companies, this study seeks to unpack the relationship between project team performance measurement systems and new product success/failure.

It examines the use of performance measurement results and the resulting impact on team-member behaviour and functional departments.

The ability to bring new and innovative products to market rapidly is the prime critical competence for any successful consumer-driven company. All industries, especially automotive, are slashing product development lead times in the current hyper-competitive marketplace. This book is the first to thoroughly examine and analyze the truly effective product development methodology that has made Toyota the most forward-thinking company in the automotive industry. Winner of the 2007 Shingo Prize For Excellence In Manufacturing Research! In The Toyota Product Development System: Integrating People, Process, and Technology, James Morgan and Jeffrey Liker compare and contrast the world-class product development process of Toyota with that of a U.S. competitor. They use extensive examples from Toyota and the U.S. competitor to demonstrate value stream mapping as an extraordinarily powerful tool for continuous improvement. Through examples and case studies, this book illustrates specific techniques and proven practices for dealing with challenges associated with product development, such as synchronizing multiple disciplines, multiple function workload leveling, compound process variation, effective technology integration, and knowledge management. Readers of this book can focus on optimizing the entire product development value stream rather than focus on a specific tool or technology for local improvements. This book offers new insights into the complex set of activities and decisions of product innovation management. It provides concepts, methods, and tools that can help accelerate the introduction of successful products to the market in an increasingly competitive and changing business landscape. It also offers examples and case studies, and it is the result of more than 20 years of study, research, and consulting carried out by the two authors in the field of innovation management. The book discusses the demanding challenges of product innovation and offers practitioners guidance on how to respond to these challenges. It presents a three-level framework (the "innovation pyramid"), which reflects the core components of a firm's innovation capability: first, intelligence - absorbing information and knowledge from the outside world by looking beyond the familiar territories of the current market, technology, and customers; second, discovery - exploring opportunities for innovation through creative ideation and technology experimentation; and third, development - transforming opportunities into profitable new products and services.