Automotive Project Management

Professional publication of the RD & A community.
The automotive industry is one of the most environmental aware manufacturing sectors. Product take-back regulations influence design of the vehicles, production technologies but also the configuration of automotive reverse supply chains. The business practice comes every year closer to the closed loop supply chain concept which completely reuses, remanufactures and recycles all materials. The book covers the emerging environmental issues in automotive industry through the whole product life cycle. Its focus is placed on a multidisciplinary approach. It presents viewpoints of academic and industry personnel on the challenges for implementation of sustainable police in the automotive sector
Building on his decades of experience as a consultant and project manager in the automotive industry, the author develops comprehensive and pragmatic recommendations for action regarding the digital transformation of the automotive and supplier industries. At the heart is the transition from a vehicle-focused to a mobility-oriented business model. Based on the catalysts of the digital change, four digitisation fields are structured, and a roadmap for their transformation is presented. The topics of comprehensive change in corporate culture and an agile and efficient information technology are covered in detail as vital success factors. Selected practical examples of innovative digitisation projects provide additional ideas and impulses. An outlook on the automotive industry in the year 2040 completes the discourse.
Companies from various sectors of the economy are confronted with the new phenomenon of digital transformation and are faced with the challenge of formulating and implementing a company-wide strategy to incorporate what are often viewed as “disruptive” technologies. These technologies are sometimes associated with significant and extremely rapid change, in some cases with even the replacement of established business models. Many of these technologies have been deployed in unison by leading-edge companies acting as the catalyst for significant process change and people skills enhancement. The Handbook of Research on Digital Transformation, Industry Use Cases, and the Impact of Disruptive Technologies examines the phenomenon of digital transformation and the impact of disruptive technologies through the lens of industry case studies where different combinations of these new technologies have been deployed and incorporated into enterprise IT and business strategies. Covering topics including chatbot implementation, multinational companies, cloud computing, internet of things, artificial intelligence, big data and analytics, immersive technologies, and social media, this book is essential for senior management, IT managers, technologists, computer scientists, cybersecurity analysts, academicians, researchers, IT consultancies, professors, and students.
Processes for Successful Customer Oriented Vehicle Development
Ensuring Product Integrity and Program Quality
Integrated Computer-Aided Design in Automotive Development
Project Management Case Studies
Hope Is Not a Method
Managing Aerospace Projects

Since the end of the Cold War, the United States Army has been reengineered and downsized more thoroughly than any other business. In the early 1990s, General Sullivan, army chief of staff, and Colonel Harper, his key strategic planner, took the post-Cold War army into the Information Age. Faced with a 40 percent reduction in staff and funding, they focused on new peacetime missions, dismantled a cumbersome bureaucracy, reinvented procedures, and set the guidelines for achieving a vast array of new goals. Hope Is Not a Method explains how they did it and shows how their experience is extremely relevant to today's businesses. From how to stay on top of long-range issues to how to maintain a productive work force during times of change, it offers invaluable lessons in leadership and provides proven tactics any business can implement.

Smaller companies are abundant in the business realm and outnumber large companies by a wide margin. To maintain a competitive edge against other businesses, companies must ensure the most effective strategies and procedures are in place. This is particularly critical in smaller business environments that have fewer resources. Start-Ups and SMEs: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines the strategies and concepts that will assist small and medium-sized enterprises to achieve competitiveness. It also explores the latest advances and developments for creating a system of shared values and beliefs in small business environments. Highlighting a range of topics such as entrepreneurship, innovative behavior, and organizational sustainability, this multi-volume book is ideally designed for entrepreneurs, business managers, executives, managing directors, academicians, business professionals, researchers, and graduate-level students.

"It has often been said that 'to improve, one must be prepared tomeasure the improvement' and 'one must inspect what one expects.'The Kerzner Project Management Maturity Model has provided thistangible measure of maturity. The rest is up to a company to setthe expectations and to inspect the results."--Bill Marshall,Nortel Global Project Process Standards (from the Foreword) Strategic planning for project management-a proven model forassessment and continuous improvement Harold Kerzner's landmark Project Management has long been thereference of choice for outstanding coverage of the basicprinciples and concepts of project management. Now, with theProject Management Maturity Model (PMMM) detailed in this new book,Kerzner has developed a unique, industry-validated tool for helpingcompanies assess their progress in integrating project managementthroughout their organization. Strategic Planning for Project Management Using a ProjectManagement Maturity Model begins by examining the principles ofstrategic planning and how they relate to project management. Thesecond part of the book introduces the PMMM, detailing the fivedifferent levels of development for achieving maturity, along withbenchmarking instruments for measuring an organization's progressalong the maturity curve. These assessment tools can easily becustomized to suit individual companies-a particularly valuablefeature of the model. Offering vital guidance for making project management a strategictool for competitive advantage, this book helps managers,engineers, project team members, business consultants, and othersbuild a powerful foundation for company improvement and excellence.

Project Management Circa 2025 provides the basics about how project management is used in the present, and how organizations will create a new state-of-the-art for project management. As readers learn what the future of project management might be, they will also see the likely impact on their own organizations, now and in the future.

Product Lifecycle Management (Volume 4): The Case Studies
Automotive Process Audits
Model and Challenge for the Future?
The Project Management Question and Answer Book
Achieving Global Excellence
How to Manage Your Projects To Deliver Outstanding Results
The Rise of Mega Suppliers

There are many books on project management and many on embedded systems, but few address the project management of embedded products from concept to production. Project Management of Complex and Embedded Systems: Ensuring Product Integrity and Program Quality uses proven Project Management methods and elements of IEEE embedded software development techniques, to explain how to deliver a reliable complex system to market. This volume begins with a general discussion of project management, followed by an examination of the various tools used before a project is underway. The book then delves into the specific project stages: concept, product development, process development, validation of the product and process, and release to production. Finally, post-project stages are explored, including failure reporting, analysis, corrective actions, and product support. The book draws heavily on information from Department of Defense sources as well as systems developed by the Automotive Industry Action Group, General Motors, Chrysler, and Ford to standardize the approach to designing and developing new products. These automotive development and production ideas have universal value, particularly the concept of process and design controls. The authors use these systems to explain project management techniques that can assist developers of any embedded system. The methods explored can be adapted toward mechanical development projects as well. The text includes numerous war stories offering concrete solutions to problems that might occur in production. Tables and illustrative figures are provided to further clarify the material. Organized sequentially to follow the normal life cycle of a project, this book helps project managers identify challenges before they become problems and resolve those issues that cannot be avoided.

Today, some suppliers have grown increasingly powerful and in certain cases, earn revenues that rival or even exceed that of their automaker clients. In the pre-globalisation period, automakers wielded absolute power over their significantly smaller suppliers. This book reveals the upending of this relationship, with the gradual shift in the balance of power from automakers to their suppliers in this era of globalisation. The book examines how suppliers in the global tyres, seats, constant velocity joints (hereafter 'CVJs'), braking systems and automotive semiconductor industries have evolved into powerful oligopolies through a mix of acquisition and organic growth strategies. It also highlights how joint ventures could be strategically deployed as springboards to acquisition, as they enable firms to familiarise themselves with their partners’ markets and operations. Moreover, the book analyses the disruption stirred by the entry of well-resourced technology titans into this industry and their inevitable clash with the traditional incumbents. This book is an invaluable reference for anyone interested in learning more about the automakers’ and now their suppliers’ relentless quest to create market-dominating intelligent driving systems.

For nearly twenty years, The Little Black Book of Project Management has provided businesspeople everywhere with a quick and effective introduction to project management tools and methodology. The revised and updated third edition reflects the newest techniques, the latest project management software, as well as the most recent changes to the Project Management Body of Knowledge (PMBOKTM). Readers will find invaluable strategies for organizing any project; implementing the Six Sigma approach; choosing the project team; preparing a budget and sticking to it; scheduling, flowcharting, and controlling a project; preparing project documentation; managing communications; and much more. Project management has increasingly become about getting more and better results with fewer resources. In this fast-read solution for both seasoned and first-time project managers, author Michael C. Thomsett shares his not-so-little secrets to achieving the results professionals want, increasing their organizational ability, generating consistent profit, and gaining a reputation for both quality and dependability.

The seven essential tools for keeping projects on time and under budget You're executing risk management, leadership, and planning--all hallmarks of outstanding project management. And yet you're still having trouble keeping your projects on schedule. Creative Project Management adds two new elements to the mix: creativity and innovation. Internationally renowned project management consultants Michael Dobson and Ted Leemann combine traditional project management skills, such as risk evaluation, decision-making, and human dynamics, with outside-the-box thinking and business creativity. They provide seven new tools and approaches you can apply to any project. The methods discussed inside Creative Project Management show you how to: Realistically imagine the outcome of your decisions Work with--and around--the realities and constraints that affect your decisions Read and predict trends Manage the long- and short-term ramifications of your decisions Evaluate the impact of present and future technologies on your decisions Imagine new choices you didn't think you had Creative Project Management provides an invaluable new set of tools for any project management professional tasked with making difficult decisions in these uncertain times.

Catalysts, Roadmap, Practice
Project-Management in Practice
The Project Management Book
Project Management of Complex and Embedded Systems
Automotive Audits
Principles and Practices
Electric Cars – The Future is Now!

The automotive industry is under constant pressure to design vehicles capable of meeting increasingly demanding challenges such as improved fuel economy, enhanced safety and effective emission control. Drawing on the knowledge of leading experts, Advanced materials in automotive engineering explores the development, potential and impact of using such materials. Beginning with a comprehensive introduction to advanced materials for vehicle lightweighting and automotive applications, Advanced materials in automotive engineering goes on to consider nanostructured steel for automotive body structures, aluminium sheet and high pressure die-cast aluminium alloys for automotive applications, magnesium alloys for lightweight powertrains and automotive bodies, and polymer and composite moulding technologies. The final chapters then consider a range of design and manufacturing issues that need to be addressed when working with advanced materials, including the design of advanced automotive body structures and closures, technologies for reducing noise, vibration and harshness, joining systems, and the recycling of automotive materials. With its distinguished editor and international team of contributors, Advanced materials in automotive engineering is an invaluable guide for all those involved in the engineering, design or analysis of motor vehicle bodies and components, as well as all students of automotive design and engineering. Explores the development, potential and impact of using advanced materials for improved fuel economy, enhanced safety and effective mission control in the automotive industry Provides a comprehensive introduction to advanced materials for vehicle lightweighting and automotive applications Covers a range of design ideas and manufacturing issues that arise when working with advanced materials, including technologies for reducing noise, vibration and harshness, and the recycling of automotive materials

What is a project charter? How about a work breakdown structure? Do you know the basic steps behind risk quantification? And why is it important to be acquainted with Goldratt's critical chain theory? The Project Management Question and Answer Book is a one-stop reference that both beginning and experienced project managers will use in countless on-the-job situations. Providing the answers to critical questions, from the simplest to the most advanced, the book is arranged to get you the information you need the moment you need it. You'll find helpful explanations of crucial project management issues, including: * Why PM is useful to you and your organization * How to interact with project stakeholders to maximize productivity * How to establish realistic cost, schedule, and scope baselines * What management techniques can be used to motivate teams * What methods you can use for evaluating project team performance Packed with case studies and examples, The Project Management Question and Answer Book is an indispensable guide covering everything from estimates, quality control, and communications, to time-, risk-, and human resource management. It is a practical, constantly usable resource for understanding fundamental project management issues and implementing workable solutions.

The Project Management Book addresses the real-life scenarios and issues that anyone responsible for managing a project is likely to face on a day to day basis. It provides solutions to the everyday issues involved in managing projects, including: Defining your project Understanding your role as a project manager Dealing with external problems Learning from Lean and Six Sigma Delivering projects in times of change It also includes a handy glossay of project management jargon Illustrates the benefits of multi-project management

Best Practices on Implementation
Operations Management in Automotive Industries
Development Processes, Geometric Fundamentals, Methods of CAD, Knowledge-Based Engineering Data Management
Automotive Service Management
The Japanese Automotive Industry
A Real Options Analysis
Situational Project Management

Automotive Service Management: Principles into Practice, Second Edition, provides coverage across a wide range of topics that are critically important in the fast-paced, complex world of automotive service management. Exploring over 30 different topics, the text's conversational tone and real-life examples help reinforce key points and concepts. Designed for those in training to enter the automotive service industry, this text also provides sufficient depth and breadth of content to be a valuable resource to support continuing development for industry service professionals.
This book has proved its worth over the years as a text for courses in Production Management at the Faculty of Automotive Engineering in Turin, Italy, but deserves a wider audience as it presents a compendium of basics on Industrial Management, since it covers all major topics required. It treats all subjects from product development and “make or buy”-decision strategies to the manufacturing systems setting and management through analysis of the main resources needed in production and finally exploring the supply chain management and the procurement techniques. The very last chapter recapitulates the previous ones by analysing key management indicators to pursue the value creation that is the real purpose of every industrial enterprise. As an appendix, a specific chapter is dedicated to the basics of production management where all main relevant definitions, techniques and criteria are treated, including some numerical examples, in order to provide an adequate foundation for understanding the other chapters. This book will be of use not only to Automotive Engineering students but a wide range of readers who wish to gain insight in the world of automotive engineering and the automotive industry in general.
This book defines, develops, and examines the foundations of the APQP (Advanced Product Quality Planning) methodology. It explains in detail the five phases, and it relates its significance to national, international, and customer specific standards. It also includes additional information on the PPAP (Production Part Approval Process), Risk, Warranty, GD&T (Geometric Dimensioning and Tolerancing), and the role of leadership as they apply to the continual improvement process of any organization. Features Defines and explains the five stages of APQP in detail Identifies and zeroes in on the critical steps of the APQP methodology Covers the issue of risk as it is defined in the ISO 9001, IATF 16949, the pending VDA, and the OEM requirements Presents the role of leadership and management in the APQP methodology Summarizes all of the change requirements of the IATF standard
With a detailed discussion on the preparation and tools needed for an automotive process audit, this book addresses the fundamental issues and concerns by focusing on two objectives: explaining the methods and tools used in the process for the organization, and provide a reference or manual for dealing with documenting quality issues. This book addresses the fundamental issues and concerns for a successful automotive process audit and details specifically how to prepare for it. It presents a complete assessment of what an organization must do to earn certification in ISO standards, industry standards, and customer-specific requirements. It also focuses on the efficiency of resources within an organization so that an audit can be successful and describes the methodologies to optimize the process by knowing what to do, what to say, and how to prove it. A road map is offered for the "process audit" and the "layered audit," and defines a clear distinction between the preparation details for each. This book is intended for those that conduct audits, those who are interested in auditing, and those who are being audited. It specifically addresses how to prepare for an automotive process audit for readers who are involved in quality, manufacturing, and operations management, and those who work with suppliers.
The Automotive Development Process
Automotive Development Processes
Thinking Beyond Lean
Case Studies
Preparations and Tools
Surviving Interpretation and Assessment
Project Management Circa 2025

Winner of PMI’s 2011 David I. Cleland Project Management Literature Award Detailing cutting-edge green techniques and methods, this book teaches project managers how to maximize resources and get the most out of limited budgets. It supplies proven techniques and best practices in green project management, including risk and opportunity assessments. With illustrative case studies and insights from acknowledged leaders in green

project management, the text: Explains how to tap into green incentives, including grants, rebates, and tax credits Includes case studies that illustrate how to integrate green techniques and methods to generate cost savings and maximize resources Provides green techniques that take little time to implement, can benefit all types of projects, and can generate immediate savings to your project's bottom line Praise for: A first-of-its-kind book ... a must-read for senior executives as well as project managers. —Harold Kerzner, Ph.D., Senior Executive Director for Project Management at The International Institute for Learning ... an impressive piece of work. —Jean Binder, PMP, MBA, award-winning author (David I. Cleland Literature Award, 2008) This important book defines the green field and sets out the steps for those who want to be ahead of the crowd... —Dr. David Hillson, PMP, FAPM, FIRM, MCMI, Director of Risk Doctor & Partners ... an incredible call to arms to increase your project greenality for a better world, or a bigger pay check, if you're still cynical on this topic. —Bas de Baar, ProjectShrink.com ... an excellent job of making the reader aware of how much influence a single project manager, let alone an entire discipline, can have on improving our environment. —Professor Schwalbe, Department of Business Administration, Augsburg College

This book provides insight into the Life Cycle Management (LCM) concept and the progress in its implementation. LCM is a management concept applied in industrial and service sectors to improve products and services, while enhancing the overall sustainability performance of business and its value chains. In this regard, LCM is an opportunity to differentiate through sustainability performance on the market place, working with all departments of a company such as research and development, procurement and marketing, and to enhance the collaboration with stakeholders along a company's value chain. LCM is used beyond short-term business success and aims at long-term achievements by minimizing environmental and socio-economic burden, while maximizing economic and social value.

Over the next twenty years, the role and contributions of successfully managed projects will continue to grow in importance to aerospace organizations, especially considering the demands of emerging markets. The accompanying challenges will be how to effectively reduce product and process cost where known (incremental) and unknown (transformational) technological innovation is required. Managing aerospace projects brings together ten seminal SAE technical papers that support the vision of a more holistic and integrated approach to highly complex projects.

This practice-oriented book explores a variety of cross-project topics and specific aspects of different project phases. It also offers tips, examples, templates and checklists, and discusses concrete problems and solutions from project practice in IT and the automotive industry. The authors combine their extensive practical experience in years of project work with relevant project-management theory. Each chapter begins with a list of the learning objectives and concludes with a summary of the insights provided. Accordingly, the book offers a valuable resource for: Beginners wishing to acquire basic project management skills Participants in more advanced project management training who are looking for instructional material Project management experts who want to learn about further aspects, and to employ templates and checklists for even more successful projects

The Little Black Book of Project Management
What Business Leaders Can Learn from America's Army
Project Management
Advanced Product Quality Planning
Advanced Project Management
What the best project managers know, do and say
Project Management for Automotive Engineers

Project Management for Automotive EngineersA Field GuideProject Management of Complex and Embedded SystemsEnsuring Product Integrity and Program QualityCRC Press

Provides information and guidance for engineers, managers, and practitioners on applying and implementing the Automotive SPICE framework.

The latest edition in the gold standard of project management case study collections As a critical part of any successful, competitive business, project management sits at the intersection of several functional areas. And in the newly revised Sixth Edition of Project Management Case Studies, world-renowned project management professional Dr. Harold Kerzner delivers practical and in-depth coverage of project management in industries as varied as automotive, healthcare, government, manufacturing, communications, construction, chemical, aerospace, and more. The latest edition of this bestselling book acts as the perfect supplement to any project management textbook or as an aid in the preparation for the PMP certification exam. The author includes new topics, like risk management, information sharing, scope changes, crisis dashboards, and innovation. The Sixth Edition includes ten new case studies and a wide array of updates to existing cases to meet today's industry standards and reflect the unique challenges facing modern project management professionals. This new edition: Features 10 new case studies from LEGO, NorthStar, Berlin Brandenburg Airport, and more Includes over 100 case studies drawn from real companies illustrating successful and poor implementation of project management Provides coverage of broad areas of project management as well as focused content on the automotive, healthcare, government, manufacturing, communications, construction, chemical, and aerospace industries Offers new topics including risk management, information sharing, scope changes, crisis dashboards, and innovation Perfect for students taking courses on project management during their undergraduate degrees and at the graduate level as part of an MBA or graduate engineering program, Project Management Case Studies is also an indispensable resource for consulting and training companies who work with other professionals.

Whether you are organising an important event or heading up a large team, running a project can be a daunting process. Spiralling costs and missed deadlines are part of everyday life for many project managers - in fact, more projects fail than succeed! But project management doesn't have to be this way. It is possible to manage projects that consistently meet deadlines and come in within budget. Brilliant Project Management shows you how. Drawing on over 30 years of experience, you'll discover how to ensure your projects succeed every time. In this new edition Barker & Cole have included a section highlighting valuable sources of information in the challenging world of project management, including their inside track on methods, training and professional associations. It's the ultimate guide to becoming a brilliant project manager. Brilliant Outcomes Make a success of any project. Deliver on your promises. Save money, time and your sanity!

Creative Project Management
The Road to Success
Army RD & A.
Collaborative and Cross-company Project Management Within the Automotive Industry Using the Balanced Scorecard
Start-Ups and SMEs: Concepts, Methodologies, Tools, and Applications
Environmental Issues in Automotive Industry
Brilliant Project Management ePub eBook

The global crisis the automotive industry has slipped into over the second half of 2008 has set a fierce spotlight not only on which cars are the right ones to bring to the market but also on how these cars are developed. Be it OEMs developing new models, suppliers integerating themselves deeper into the development processes of different OEMs, analysts estimating economical risks and opportunities of automotive investments, or even governments creating and evaluating scenarios for financial aid for suffering automotive companies: At the end of the day, it is absolutely indispensable to comprehensively understand the processes of auto- tive development – the core subject of this book. Let ' s face it: More than a century after Carl Benz, Wilhelm Maybach and Gottlieb Daimler developed and produced their first motor vehicles, the overall concept of passenger cars has not changed much. Even though components have been considerably optimized since then, motor cars in the 21st century are still driven by combustion engines that transmit their propulsive power to the road s- face via gearboxes, transmission shafts and wheels, which together with spri- damper units allow driving stability and ride comfort. Vehicles are still navigated by means of a steering wheel that turns the front wheels, and the required control elements are still located on a dashboard in front of the driver who operates the car sitting in a seat.

Motivated by Toyota's product development capabilities, Daniel S ö rensen examines the question of how much to invest in pursuing parallel design alternatives. A real option to switch is modeled accounting for interproject correlations. Based upon economic theory, five principles for value-maximizing the product development process are presented.

Most project managers would agree that every project is unique. But not all project managers would agree that the best way to manage a unique project is unique. Many still cling to the old practice of having a methodology that is applied to all projects. "One size fits all" is still in common use, and this approach has proven to lead to project failure. Flexibility, situational intelligence, and creativity are essential to deliver project success. The need to recognize and master ever-changing requirements and environmental conditions is a tough challenge for professional project managers. The same practices that led to success yesterday may cause failure today. Selecting favorable responses to a given situation is often the most critical factor of the dynamics of success and failure. This book is designed to help project professionals assess a situation, predict the appropriate approach, methodology and achieving styles, and then apply them in a situational fashion. To guide project managers in selecting the appropriate responses, Situational Project Management (SitPM) shows how to assess a given project, determine its unique characteristics, and select the appropriate methods to complete the project. With this book, projects managers can use SitPM to develop profiles of their projects on the basis of the projects ' physical characteristics, the project teams ' behavioral characteristics, the enterprise environment, and the market environments receiving project deliverables. These profiles help project managers to determine the appropriate project life cycle approach and leadership style. The book also explores various ways to engage stakeholders on the basis of a project ' s SitPM profile. The book ' s author, Oliver F. Lehmann, has developed a set of templates to apply SitPM in practice. It can be downloaded from www.oliverlehmann.com/SitPM/Templates.zip.

This book addresses the essentials of an automotive audit which is required by all automotive suppliers world-wide. They are based on customer specific requirements, ISO standards, and Industry specifications. This book covers both the mandated documents and records that are necessary for compliance, with an extensive discussion on Layered Process Audits and distance auditing. The book addresses the six standards for certification in one volume. It explains " why " and " how " an effective audit should be carried out. It identifies the key indicators for a culture change with an audit, explains the " process audit " at length, discusses the rationale for Layered Process audits and summarizes all the mandatory documents and records for all standards and requirements. The book covers the issue of risk in auditing and emphasizes the role of a " checklist " in the preparation process. This book is for those that conduct audits, those that are interested in auditing, and those being audited. It specifically addresses automotive OEMs and their supplier base but is also of interest to anyone wanting information on auditing.

From Industrial Strategies to Production Resources Management, Through the Industrialization Process and Supply Chain to Pursue Value Creation
Automotive SPICE in Practice
Concepts, Methodologies, Tools, and Applications
The Dynamics of Success and Failure
A Guideline and Toolbox for Successful Projects
Strategic Planning for Project Management Using a Project Management Maturity Model
How Multi-project Management is Transforming Product Development at Toyota and Other Companies

The automotive industry faces constant pressure to reduce development costs and time while still increasing vehicle quality. To meet this challenge, engineers and researchers in both science and industry are developing effective strategies and flexible tools by enhancing and further integrating powerful, computer-aided design technology. This book provides a valuable overview of the development tools and methods of today and tomorrow. It is targeted not only towards professional project and design engineers, but also to students and to anyone who is interested in state-of-the-art computer-aided development. The book begins with an overview of automotive development processes and the principles of virtual product development. Focusing on computer-aided design, a comprehensive outline of the fundamentals of geometry representation provides a deeper insight into the mathematical techniques used to describe and model geometrical elements. The book then explores the link between the demands of integrated design processes and efficient data management. Within automotive development, the management of knowledge and engineering data plays a crucial role. Some selected representative applications provide insight into the complex interactions between computer-aided design, knowledge-based engineering and data management and highlight some of the important methods currently emerging in the field.

Authoritative strategies for implementing project management Senior managers at world-class corporations open their office doors to discuss case studies that demonstrate their thought processes and actual strategies that helped them lead their companies to excellence in project management in less than six years! Following the Project Management Institute's PMBOK® Guide, industry leaders address: * Project risk management * Project portfolio management * The Project Office * Project management multinational cultures * Integrated project teams and virtual project teams (PMBOK is a registered mark of the Project Management Institute, Inc.)

This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team managers and employees in engineering and manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields.

A new edition of the most popular book of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Automotive Global Value Chain
Handbook of Research on Digital Transformation, Industry Use Cases, and the Impact of Disruptive Technologies
Life Cycle Management
Project Management - Best Practices
Advanced Materials in Automotive Engineering
Principles Into Practice
A Field Guide