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In business, 'product lifecycle management' ('PLM') is the procedure of running the whole lifecycle of a article as of commencement, via designing and building planning and produce, to facility and removal of produced articles. PLM combines folks, information, actions and trade structures and delivers a article data back-bone for businesses and their expanded organization. There has never been a Product lifecycle management Guide like this. It contains 99 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Product lifecycle management. A quick look inside of some of the subjects covered: V.i. Labs, Knowledge-based engineering - KBE futures, KBE theory, Product lifecycle management - Introduction to development process, Telelogic - Former Products, Francois Castaing - With AMC and Chrysler, SAP AG Products, Product data management, Dassault Group - Subsidiaries, Business software, Closed loop lifecycle management - Benefits, Mechanical engineer, Service life - Product strategy, Dassault Systemes - PLM Period, Jeep Grand Cherokee - Development, CATIA - Scope of application, Closed loop lifecycle management - Introduction to development process, List of Eclipse-based software, DELMIA, SAP SCM, SAP Business Suite, Solid Edge, List of SAP products, Open Services for Lifecycle Collaboration, Human-centered design - User-centered design in product lifecycle management systems, XApps, Product life-cycle management, Mechanical engineering, Machines - Design, Product data management - Introduction, Closed loop lifecycle management - Forms, Machinery - Machine design, Oracle E-Business Suite - Oracle supply-chain management, and much more... Bachelor Thesis from the year 2014 in the subject Computer Science - Commercial Information Technology, grade: 2,0, University of Applied Sciences Brandenburg (Fachbereich Wirtschaft), language: English, abstract: Risk Management for IT-Service Lifecycle Management is not always performed in a transparent, repeatable and consistent way. In consequence its potential to be used as a key element for successful decision taking is not fully utilized. This thesis considers applied standards, models and practices in the IT-Service Management to establish a methodology which enables improvement of Risk Management within the IT-Service Lifecycle. The developed methodology determines stages in the Lifecycle where risk assessments should be performed. It also defines the required information and their sources. Being based on already existing processes within a service providing organization, this methodology can easily be applied to improve the service quality. Motivation: Since one major business sector of Merck is the production of

pharmaceutical products the organization is subject to very strict regulations for development and production of their life science products and the business supporting ITServices therefore underlie a strong IT-Governance. This IT-Governance as part of the corporate Governance is highly influential on how IT-Services are operated and carried out over their whole lifecycle. In addition, business processes and the management of risks are highly important factors. The provided IT-Services have to be on track with business needs of the respective customers. To ensure this alignment strategic decisions need to be based on relevant information. To improve this decision making process various types of information on IT-Services are needed. The author's professional background served as a foundation for addressing this corporate need of Merck. Having obtained basic knowledge on IT-Services, related organizations and processes, the author took this opportunity to pursue his growing interest within this field of research. Beginning Application Lifecycle Management is a guide to an area of rapidly growing interest within the development community: managing the entire cycle of building software. ALM is an area that spans everything from requirements specifications to retirement of an IT-system or application. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, the benefits and effects of ALM techniques used on your project can be wide-ranging and pronounced. In this book, author Joachim Rossberg will show you what ALM is and why it matters. He will also show you how you can assess your current situation and how you can use this assessment to create the road ahead for improving or implementing your own ALM process across all of your team's development efforts. Beginning Application Lifecycle Management can be implemented on any platform. This book will use Microsoft Team Foundation Server as a foundation in many examples, but the key elements are platform independent and you'll find the book written in a platform agnostic way. In this book, you'll learn: What application lifecycle management is and why it matters. The steps necessary for implementing an ALM process. Tips and techniques you can use to gain control of your development efforts. How to implement an agile framework into your ALM process How to achieve traceability and visibility in your projects How to automate your ALM process How do we go about Securing Customer lifecycle management? Who is the Customer lifecycle management process owner? Is Customer lifecycle management dependent on the successful delivery of a current project? What key business process output measure(s) does Customer lifecycle management leverage and how? What is the purpose of Customer lifecycle management in relation to the mission? This valuable Customer lifecycle management self-assessment will make you the dependable Customer lifecycle management domain standout by revealing just what you need to know to be fluent and ready for any Customer lifecycle management challenge. How do I reduce the effort in the Customer lifecycle management work to be done to get problems solved? How can I ensure that plans of action include every Customer lifecycle management task and that every Customer lifecycle

management outcome is in place? How will I save time investigating strategic and tactical options and ensuring Customer lifecycle management opportunity costs are low? How can I deliver tailored Customer lifecycle management advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Customer lifecycle management essentials are covered, from every angle: the Customer lifecycle management self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Customer lifecycle management outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Customer lifecycle management practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Customer lifecycle management are maximized with professional results. Your purchase includes access details to the Customer lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. The aim of this book is to present the terminology, applications, trends, and developments in Product Lifecycle Management (PLM). This book has a total of seven chapters that treat the fundamental and future terminology used in PLM, aspects regarding the design, customization, and development of products, products testing, supply chain optimization, and recycling of the products made of special materials. You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development process, you can make changes, both large and small, throughout your project's life cycle that will lead to better–quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management tool that has practical implications for the whole team—from architects to designers, from developers to testers. This book focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team System (VSTS). It demonstrates the key concepts and techniques of ALM and illustrates how they can be achieved using the tools VSTS provides in a clear succinct style. After reading the book, you will understand how VSTS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors. This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on

Product Lifecycle Management, PLM 2015, held in Doha, Qatar, in October 2015. The 79 revised full papers were carefully reviewed and selected from 130 submissions. The papers are organized in the following topical sections: smart products, assessment approaches, PLM maturity, building information modeling (BIM), languages and ontologies, product service systems, future factory, knowledge creation and management, simulation and virtual environments, sustainability and systems improvement, configuration and engineering change, education studies, cyber-physical and smart systems, design and integration issues, and PLM processes and applications. Examines the concept of aging process facilities and infrastructure in high hazard industries and highlights options for dealing with the problem while addressing safety issues This book explores the many ways in which process facilities, equipment, and infrastructure might deteriorate upon continuous exposure to operating and climatic conditions. It covers the functional and physical failure modes for various categories of equipment and discusses the many warning signs of deterioration. Dealing with Aging Process Facilities and Infrastructure also explains how to deal with equipment that may not be safe to operate. The book describes a risk-based strategy in which plant leaders and supervisors can make more informed decisions on aging situations and then communicate them to upper management effectively. Additionally, it discusses the dismantling and safe removal of facilities that are approaching their intended lifecycle or have passed it altogether. Filled with numerous case studies featuring photographs to illustrate the positive and negative experiences of others who have dealt with aging facilities, Dealing with Aging Process Facilities and Infrastructure covers the causes of equipment failures due to aging and their consequences; plant management commitment and responsibility; inspection and maintenance practices for managing life cycle; specific aging asset integrity management practices; and more. Describes symptoms and causal mechanisms of aging in various categories of process equipment Presents key considerations for making informed risk-based decisions regarding the repair or replacement of aging process facilities and infrastructure Discusses practices for managing process facility and infrastructure life cycle Includes examples and case histories of failures related to aging Dealing with Aging Process Facilities and Infrastructure is an important book for industrial practitioners who are often faced with the challenge of managing process facilities and infrastructure as they approach the end of their useful lifecycle. What other jobs or tasks affect the performance of the steps in the Contract lifecycle management process? How do we make it meaningful in connecting Contract lifecycle management with what users do day-to-day? What vendors make products that address the Contract lifecycle management needs? What tools and technologies are needed for a custom Contract lifecycle management project? What are the usability implications of Contract lifecycle management actions? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are

talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Contract lifecycle management investments work better. This Contract lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Contract lifecycle management Self-Assessment. Featuring 703 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Contract lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Contract lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Contract lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Contract lifecycle management Scorecard, you will develop a clear picture of which Contract lifecycle management areas need attention. Your purchase includes access details to the Contract lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. Biophysical Characterization of Proteins in Developing Biopharmaceuticals, Second Edition, presents the latest on the analysis and characterization of the higher-order structure (HOS) or conformation of protein based drugs. Starting from the very basics of protein structure, this book explains the best way to achieve this goal using key methods commonly employed in the biopharmaceutical industry. This book will help today's industrial scientists plan a career in this industry and successfully implement these biophysical methodologies. This updated edition has been fully revised, with new chapters focusing on the use of chromatography and electrophoresis and the biophysical characterization of very large biopharmaceuticals. In addition, best practices of applying statistical analysis to biophysical characterization data is included, along with practical issues associated with the concept of a biopharmaceutical's developability and the technical decision-making process needed when dealing with biophysical characterization data. Presents basic protein characterization methods and tools applicable to (bio)pharmaceutical research and development Highlights the capabilities and limitations of each technique Discusses the underlining science of each tool Empowers industrial biophysical chemists by providing a roadmap for applying biophysical tools Outlines the needs for new characterization and analytical tools in the biopharmaceutical industry This book constitutes the refereed post-conference proceedings of the 14th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2017, held in Seville, Spain, in July 2017. The 64 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers are organized in the following topical sections: PLM maturity, implementation and adoption; PLM for digital factories; PLM and process simulation; PLM, CAX and knowledge management; PLM and education; BIM; cyber-physical systems; modular design and products; new product development; ontologies, knowledge and data models; and Product, Service, Systems (PSS). At what point will vulnerability assessments be performed once Product lifecycle management is put into production (e.g., ongoing Risk Management after implementation)? Risk factors: what are the characteristics of Product lifecycle management that make it risky? What are your results for key measures or indicators of the accomplishment of your Product lifecycle management strategy and action plans, including building and strengthening core competencies? Record-keeping requirements flow from the records needed as inputs, outputs, controls and for transformation of a Product lifecycle management process. ask yourself: are the records needed as inputs to the Product lifecycle management process available? Are accountability and ownership for Product lifecycle management clearly defined? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Product lifecycle management assessment. Featuring 609 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Product lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Product lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Product lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Product lifecycle management Scorecard, you will develop a clear picture of which Product lifecycle management areas need attention. Included with your purchase of the book is the Product lifecycle management Self-Assessment downloadable resource, containing all 609 questions and Self-Assessment areas of this book. This helps with ease of (re-)use and enables you to import the questions in your preferred Management or Survey Tool. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. This Self-Assessment has been approved by The Art of Service as part of a lifelong learning and Self-Assessment program and as a component of maintenance of certification. Optional other Self-Assessments are available. For more information, visit http://theartofservice.com Multivariate Analysis in the Pharmaceutical Industry provides industry practitioners with guidance on multivariate data methods and their applications over the lifecycle of a pharmaceutical product, from process development, to routine manufacturing, focusing on the challenges specific to each step. It includes an overview of regulatory guidance specific to the use of these methods, along with perspectives on the applications of these methods that allow for testing, monitoring and controlling products and processes. The book seeks to put multivariate analysis into a pharmaceutical context for the benefit of pharmaceutical practitioners, potential practitioners, managers and regulators. Users will find a resources that addresses an unmet need on how pharmaceutical industry professionals can extract value from data that is routinely collected on products and processes, especially as these techniques become more widely used, and ultimately, expected by regulators. Targets pharmaceutical industry practitioners and regulatory staff by addressing industry specific challenges Includes case studies from different pharmaceutical companies and across product lifecycle of to introduce readers to the breadth of applications Contains information on the current regulatory framework which will shape how multivariate analysis (MVA) is used in years to come This second volume moves beyond a general introduction to product lifecycle management (PLM) and its principal elements to provide a more in-depth analysis of the subjects introduced in Volume 1 (21st Century Paradigm for Product Realisation). Providing insights into the emergence of PLM and the opportunities it offers, key concepts such as the PLM Grid and the PLM Paradigm are introduced along with the main components of PLM and the associated characteristics, issues and approaches. Detailing the 10 components of PLM: objectives and metrics; management and organisation; business processes; people; product data; PDM systems; other PLM applications; facilities and equipment; methods; and products, it provides examples and best practices. The book concludes with instructions to help readers implement and use PLM successfully, including outlining the phases of a PLM Initiative: development of PLM vision and strategy; documentation of the current situation; description of future scenarios; development of implementation strategies and plans; implementation and use. The main activities, tasks, methods, timing

and tools of the different phases are also described. Is Application lifecycle management currently on schedule according to the plan? What other areas of the organization might benefit from the Application lifecycle management team's improvements, knowledge, and learning? How do we Improve Application lifecycle management service perception, and satisfaction? What potential environmental factors impact the Application lifecycle management effort? How will the Application lifecycle management team and the organization measure complete success of Application lifecycle management? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Application lifecycle management investments work better. This Application lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Application lifecycle management Self-Assessment. Featuring 635 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Application lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Application lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Application lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Application lifecycle management Scorecard, you will develop a clear picture of which Application lifecycle management areas need attention. Your purchase includes access details to the Application lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. How much are sponsors, customers, partners, stakeholders involved in HP Application Lifecycle Management? In other words, what are the risks, if HP Application Lifecycle Management does not deliver successfully? What potential environmental factors impact the HP Application Lifecycle Management effort? How do you use HP Application Lifecycle Management data and information to support organizational decision making and innovation? In a project to restructure HP Application Lifecycle Management outcomes, which stakeholders would you involve? How can the value of HP Application Lifecycle Management

be defined? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make HP Application Lifecycle Management investments work better. This HP Application Lifecycle Management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth HP Application Lifecycle Management Self-Assessment. Featuring 703 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which HP Application Lifecycle Management improvements can be made. In using the questions you will be better able to: - diagnose HP Application Lifecycle Management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in HP Application Lifecycle Management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the HP Application Lifecycle Management Scorecard, you will develop a clear picture of which HP Application Lifecycle Management areas need attention. Your purchase includes access details to the HP Application Lifecycle Management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. This book is intended to provide an introduction to the application of a lifecycle approach to product design and development for medical devices. Medical Device Product Lifecycle management provides a framework to develop, design maintain user requirements and ensure the safety and performance of medical devices. Application of a Medical Device Product Lifecycle Management benefits the business aspects of manufacturing, fosters

alignment across design and development teams and incorporates the voice of the customer, taking into account their needs and safety that is inherent in the design of products. The Medical Device Product Lifecycle (MDPL) relies upon several distinct quality management elements and processes in order to function effectively. These include; principles and establishment of a quality management system, regulatory processes, validation processes, engineering processes, change management and risk management processes. The MDPL process itself requires procedures and documentation to facilitate product realization. For the reader to gain the maximum benefit from this book, the following points should be considered. To begin with-Regulations are mandatory. Medical devices range in their application (intended use and indications), technologies, principles of operation, complexity and value. However, regulation in addition to standards need to be consulted and applied within organizations. The manufacturer has a legal responsibility in this regard and the classification and commercial strategy may require regulations such as FDA 21 CFR 820, (United States), and Medical Device Regulations EU MDR (2017/745) or Regulation 2017/746 on In-Vitro Diagnostic Devices (IVDR) (in Europe). Introduction Establishing a Medical Device Product Development Process is necessary to for medical device manufacturers to meet FDA regulations and regional regulations applicable to the products for sale. Beyond the legal stipulation, an additional purpose is to realize and deliver safe and effective medical devices that meet the intended use and user needs which provides medical solutions that enhance and preserve quality of life. To achieve safe and effective products, the guiding principles and techniques not only need to be applied in the design and development stages, but maintaining and monitoring the performance through the product lifecycle is required. It is easily to compartmentalize product performance and safety as a development and design-based activity, however, an effective medical device lifecycle process must ensure design safety and continuity until product retirement and discontinuation. The introduction of new medical device products or changes to existing medical device products necessitate design and development activities in order to plan and deliver the appropriate verifications and validations to demonstrate safety and performance of products. Device manufacturers in establishing and applying a Medical Device Product Lifecycle Process must continually ensure the process is fit-for-purpose and that is fulfils its legal and regulatory obligations (e.g. meeting the requirements of 21 CFR 820.30: Medical Devices - Quality System Regulation and ISO 13485: Medical Devices- Quality Management Systems etc.) A Medical Device Product Lifecycle process must be a comprehensive, end-to-end process that encompasses the entire life cycle of a product from project initiation through to product discontinuation and retirement of a marketed product. Making a comprehensive and detailed process intuitive and easy-to-apply should also play a role in designing and maintaining a MDPL process. Structuring the process into specific stages and the use of design review or gate reviews also provides for a format that has milestones and a stage by stage approach that makes it easier for

engineers to work with. Product Lifecycle Management (2nd edition) explains what Product Lifecycle Management (PLM) is, and why it's needed. It describes the environment in which products are developed, realised and supported, before looking at the basic components of PLM, such as the product, processes, applications, and people. The final part addresses the implementation of PLM, showing the steps of a project or initiative, and typical activities. This new and expanded edition of Product Lifecycle Management is fully updated to reflect the many advances made in PLM since the release of the first edition. It includes descriptions of PLM technologies and examples of implementation projects in industry. Product Lifecycle Management will broaden the reader's understanding of PLM, nurturing the skills needed to implement PLM successfully and to achieve world-class product performance across the lifecycle. "A 20-year veteran of PLM, I highly recommend this book. A clear and complete overview of PLM from definition to implementation. Everything is there - reasons, resources, strategy, implementation and PLM project management." Achim Heilmann, Manager, Global Technical Publications, Varian Medical Systems "Product Lifecycle Management is an important technology for European industry. This state-of-the art book is a reference for those implementing and researching PLM." Dr. Erastos Filos, Head of Sector "Intelligent Manufacturing Systems", European Commission "This book, written by one of the best experts in this field, is an ideal complement for PLM courses at Bachelor and Master level, as well as a well-founded reference book for practitioners." Prof. Dr.-Ing. Dr. h.c. Sandor Vajna, University of Magdeburg, Germany "This comprehensive book can help drive an understanding of PLM at all levels – from CEOs to CIOs, and from professors to students – that will help this important industry continue to expand and thrive." James Heppelmann, President and Chief Executive Officer, PTC "PLM is a mission-critical decision-making system leveraged by the world's most innovative companies to transform their process of innovation on a continuous basis. That is a powerful value proposition in a world where the challenge is to get better products to the market faster than ever before. That is the power of PLM." Tony Affuso, Chairman and CEO, Siemens PLM Software Product Lifecycle Management (PLM) is the newest wave in productivity. This revolutionary approach is an outcome of lean thinking; however, PLM eliminates waste and efficiency across all aspects of a product's life--from design to deployment--not just in its manufacture. By using people, product information, processes, and technology to reduce wasted time, energy, and material across an organization and into the supply chain, PLM drives the next generation of lean thinking. Now PLM pioneer Michael Grieves offers everyone from Six Sigma and lean practitioners to supply chain managers, product developers, and consultants a proven framework for adopting this information-driven approach. Product Lifecycle Management shows you how to greatly enhance your firm's productivity by integrating the efforts of your entire organization. Most companies are seeing the returns of their efforts in lean methods diminishing, as the most fruitful applications have already been addressed. Here, Grieves reveals how PLM gives you an opportunity to

make improvements both within and across functional areas in order to increase agility, optimize efficiency, and reduce costs across the board. He gives you the most comprehensive view of PLM available, fully outlining its characteristics, method, and tools and helping you assess your organizational readiness. There's also proven examples from the field, where PLM is being widely adopted by leading companies, including General Motors, General Electric, and Dell, that are widely adopting the approach. You'll see how PLM has saved these companies billions in unnecessary costs and shaved as much as 60% off cycle times. With this book you'll learn how to: Develop and implement your PLM strategy to support your corporate objectives Engage all your employees in using information to eliminate waste Enable improved information flow Better organize and utilize your intellectual capital Foster an environment that drives PLM Lean manufacturing can only take your organization so far. To bring your productivity to the next level and save remarkable amounts of time, money, and resources, Product Lifecycle Management is your one-stop, hands-on guide to implementing this powerful methodology. 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. Product Lifecycle Management (PLM) is an essential means to cope with the challenges of global competition. This is the first English-language book on PLM that introduces the reader to the basic terms and fundamentals of PLM. The text provides a solid foundation for starting a PLM development project. It gives ideas and examples of how PLM can be utilized. In addition, it offers insight into how PLM can assist in creating opportunities and in making real eBusiness possible. Life Cycle of a Process Plant focuses on workflows, work processes, and interfaces. It is an ideal reference book for engineers of all disciplines, technicians, and business people working in the upstream, midstream, and downstream fields. This book is tailored to the everyday work tasks of the process and project engineer/manager and relates regulations to actions engineers can take in the workplace via case studies. It covers oil, gas, chemical, petrochemical, and carbon capture industries. The content in this book will be interesting for any engineers (from all disciplines) and other project team members who understand the technical principles of their work, but who would like to have a better idea of where their contribution fits into the complete picture of the life cycle of a process plant. This book shows the basic principles and approaches of process plant lifecycle information management and how they can be applied to generate substantial cost

and time savings. Thus, the readers with their own knowledge and experience in plant design and operations can adapt and implement them into their specific plant lifecycle applications. Authors bring their practical and hands-on industry expertise to this book Covers the entire workflow process of a process plant from project initiation and design through to the commissioning stage Cost estimations which relate to process plants are discussed Covers the program and project management in O&G industry Is a fully trained team formed, supported, and committed to work on the Integrated application lifecycle management improvements? What key business process output measure(s) does Integrated application lifecycle management leverage and how? What are the expected benefits of Integrated application lifecycle management to the business? Meeting the challenge: are missed Integrated application lifecycle management opportunities costing us money? How does Integrated application lifecycle management integrate with other business initiatives? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Integrated application lifecycle management investments work better. This Integrated application lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Integrated application lifecycle management Self-Assessment. Featuring 703 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Integrated application lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Integrated application lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Integrated application lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Integrated application lifecycle management Scorecard, you will develop a clear picture of which Integrated application lifecycle management areas need attention. Your purchase includes access details to the Integrated application lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest

quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Data lifecycle management: How long must different types of data be kept? Do you Record test results in the Testing tool? How can tools and collaborative features be used to support the API Lifecycle Management? What is the applications lifecycle management? How will you, as technology provider, work together with the development team to ensure a successful collaboration? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Lifecycle management investments work better. This Lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Lifecycle management Self-Assessment. Featuring 981 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Lifecycle management Scorecard, you will develop a clear picture of which Lifecycle management areas need attention. Your purchase includes access details to the Lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment

Excel Dashboard to get familiar with results generation - In-depth and specific Lifecycle management Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. This book provides a comprehensive overview of the biosimilar regulatory framework, the development process and clinical aspects for development of biosimilars. The development path of a biosimilar is just as unique as a development path of a new drug, tailored by the mechanism of action, the quality of the molecule, published information on the reference product, the current competitive environment, the target market and regulatory guidance, and most importantly, the emerging totality of evidence for the proposed biosimilar during development. For the ease of readers, the book comprises of six sections as follows: Section I: Business, Health Economics and Intellectual Property Landscape for Biosimilars Section II: Regulatory Aspects of Development and Approval for Biosimilars Section III: Biopharmaceutical Development and Manufacturing of Biosimilars Section IV: Analytical Similarity Considerations for Biosimilars Section V: Clinical aspects of Biosimilar Development Section VI: Biosimilars- Global Development and Clinical Experience Chapters have been written by one or more experts from academia, industry or regulatory agencies who have been involved with one or more aspects of biosimilar product development. The authors and editors have an expertise in commercialization and pricing of biosimilars, intellectual property considerations for biosimilars, chemistry manufacturing controls (CMC) and analytical development for biosimilars, regulatory and clinical aspects of biosimilar development. Besides the industry practitioners, the book includes several contributions from regulators across the globe. Is the RA Lifecycle Management organization completing tasks effectively and efficiently? Do we monitor the RA Lifecycle Management decisions made and fine tune them as they evolve? Will RA Lifecycle Management deliverables need to be tested and, if so, by whom? What other areas of the organization might benefit from the RA Lifecycle Management team's improvements, knowledge, and learning? What tools do you use once you have decided on a RA Lifecycle Management strategy and more importantly how do you choose? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they

are the people who rule the future. They are the person who asks the right questions to make RA Lifecycle Management investments work better. This RA Lifecycle Management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth RA Lifecycle Management Self-Assessment. Featuring 676 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which RA Lifecycle Management improvements can be made. In using the questions you will be better able to: - diagnose RA Lifecycle Management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in RA Lifecycle Management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the RA Lifecycle Management Scorecard, you will develop a clear picture of which RA Lifecycle Management areas need attention. Your purchase includes access details to the RA Lifecycle Management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Product Lifecycle Management (PLM): A Digital Journey Using Industrial Internet of Things (IIot) provides a summary of the essential topics of Product Lifecycle Management (PLM) and the Industrial Internet of Things (IIoT) in the era of Industry 4.0. The book discusses emerging technologies, their contribution towards enhancing product design, development, and manufacturing. It also presents the integration of PLM, Enterprise Resource Planning (ERP), and Manufacturing Execution System (MES) along with IIoT as well the integration of mechanical, electronic components, embedded systems, firmware and software focusing on smart design, development, and manufacturing in the digital transformation journey. The book provides a high-level overview of how the smart product development through smart manufacturing materializes within the smart ecosystem. Manufacturing professionals, designers, mechanical, electrical, electronics, instrumentation and industrial engineers, information and communication technology consultants and those working in production planning, process control, and operations will find this book invaluable. Can we do Process lifecycle without complex (expensive) analysis? What are the Essentials of Internal Process lifecycle Management? How do we make

it meaningful in connecting Process lifecycle with what users do day-to-day? Who will provide the final approval of Process lifecycle deliverables? Is there a recommended audit plan for routine surveillance inspections of Process lifecycle's gains? This easy Process lifecycle self-assessment will make you the reliable Process lifecycle domain auditor by revealing just what you need to know to be fluent and ready for any Process lifecycle challenge. How do I reduce the effort in the Process lifecycle work to be done to get problems solved? How can I ensure that plans of action include every Process lifecycle task and that every Process lifecycle outcome is in place? How will I save time investigating strategic and tactical options and ensuring Process lifecycle costs are low? How can I deliver tailored Process lifecycle advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Process lifecycle essentials are covered, from every angle: the Process lifecycle self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Process lifecycle outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Process lifecycle practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Process lifecycle are maximized with professional results. Your purchase includes access details to the Process lifecycle self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. What tools and technologies are needed for a custom Configuration lifecycle management project? What other jobs or tasks affect the performance of the steps in the Configuration lifecycle management process? What is the total cost related to deploying Configuration lifecycle management, including any consulting or professional services? Are there any specific expectations or concerns about the Configuration lifecycle management team, Configuration lifecycle management itself? Is the Configuration lifecycle management scope manageable? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Configuration lifecycle management investments work better. This Configuration lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools

you need to an in-depth Configuration lifecycle management Self-Assessment. Featuring 702 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Configuration lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Configuration lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Configuration lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Configuration lifecycle management Scorecard, you will develop a clear picture of which Configuration lifecycle management areas need attention. Your purchase includes access details to the Configuration lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard, and... - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation ...plus an extra, special, resource that helps you with project managing. INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Have the types of risks that may impact Information lifecycle management been identified and analyzed? How frequently do you track Information lifecycle management measures? Do the Information lifecycle management decisions we make today help people and the planet tomorrow? A compounding model resolution with available relevant data can often provide insight towards a solution methodology; which Information lifecycle management models, tools and techniques are necessary? Do we monitor the Information lifecycle management decisions made and fine tune them as they evolve? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Information lifecycle management investments

work better. This Information lifecycle management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Information lifecycle management Self-Assessment. Featuring 713 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Information lifecycle management improvements can be made. In using the questions you will be better able to: - diagnose Information lifecycle management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Information lifecycle management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Information lifecycle management Scorecard, you will develop a clear picture of which Information lifecycle management areas need attention. Your purchase includes access details to the Information lifecycle management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. A comprehensive guide to optimizing the lifecycle management of pharmaceutical brands The mounting challenges posed by cost containment policies and the prevalence of generic alternatives make optimizing the lifecycle management (LCM) of brand drugs essential for pharmaceutical companies looking to maximize the value of their products. Demonstrating how different measures can be combined to create winning strategies, Pharmaceutical Lifecycle Management: Making the Most of Each and Every Brand explores this increasingly important field to help readers understand what they can—and must—do to get the most out of their brands. Offering a truly immersive introduction to LCM options for pharmaceuticals, the book incorporates numerous real-life case studies that demonstrate successful and failed lifecycle management initiatives, explaining the key takeaway of each example. Filled with practical information on the process of actually writing and presenting an LCM plan, as well as how to link corporate, portfolio, and individual brand strategies, the book also offers a look ahead to predict which LCM strategies will continue to be effective in the future. While the development of new drugs designed to address unmet patient needs remains the single most important goal of any pharmaceutical company, effective LCM is invaluable for getting the greatest possible value from existing brands. Pharmaceutical Lifecycle Management walks you through the process step by step, making it indispensable reading for pharmaceutical executives and managers, as well as anyone working in the fields of drug research, development, and regulation. Integrate Agile ALM and DevOps to Build Better Software and Systems at Lower Cost Agile Application Lifecycle Management (ALM) is a comprehensive development lifecycle that embodies essential Agile principles and guides all activities needed to deliver successful software or systems. Agile ALM embodies Agile Configuration Management (CM) and much more. Flexible and robust, it offers "just enough process" to get the job done and leverages

DevOps to enhance interactions among all participants. Agile Application Lifecycle Management offers practical advice and strategies for implementing Agile ALM in your complex environment. Leading experts Bob Aiello and Leslie Sachs show how to fully leverage Agile benefits without sacrificing structure, traceability, or repeatability. You'll find realistic guidance for managing source code, builds, environments, change control, releases, and more. The authors help you support Agile in organizations that maintain traditional practices; conventional ALM systems; or siloed, non-Agile teams. They also show how to scale Agile ALM to large or distributed teams, and to environments from cloud to mainframe. Coverage includes Understanding key concepts underlying modern application and system lifecycles Creating your best processes for developing your most complex software and systems Automating build engineering, continuous integration, and continuous delivery/deployment Enforcing Agile ALM controls without compromising productivity Creating effective IT operations that align with Agile ALM processes Gaining more value from testing and retrospectives Making ALM work in the cloud, and across the enterprise Preparing for the future of Agile ALM Today, you need maximum control, quality, and productivity, and this guide will help you achieve those by using Agile ALM, CM, and DevOps together. Workflow management systems (WFMS) are enjoying increasing popular ity due to their ability to coordinate and streamline complex organizational processes within organizations of all sizes. Organizational processes are de scriptions of an organization's activities engineered to fulfill its mission such as completing a business contract or satisfying a specific customer request. Gaining control of these processes allows an organization to reengineer and improve each process or adapt them to changing requirements. The goal of WFMSs is to manage these organizational processes and coordinate their execution. was demonstrated in the first half The high degree of interest in WFMSs of the 1990s by a significant increase in the number of commercial products (once estimated to about 250) and the estimated market size (in combined $2 billion in 1996. Ensuing maturity product sales and services) of about is demonstrated by consolidations during the last year. Ranging from mere e-mail based calendar tools and flow charting tools to very sophisticated inte grated development environments for distributed enterprise-wide applications and systems to support programming in the large, these products are finding an eager market and opening up important research and development op portunities. In spite of their early success in the market place, however, the current generation of systems can benefit from further research and develop ment, especially for increasingly complex and mission-critical applications. Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as

significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This second volume focuses on the managerial and organizational challenges of BPM such as strategic and cultural alignment, governance and the education of BPM stakeholders. As such, this book provides concepts and methodologies for the integration of BPM. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This includes in particular new technologies such as in-memory data and process management, social media and networks. A further focus of this revised and extended edition is on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM. Managing the Dynamics of New-Product Development Processes merges product-based planning, process modelling, process execution, probabilistic simulations, and simulation based decision-making into one framework called the Dynamic new-Product Development Process. It provides readers with a means of improving the management of product development through enhanced methods and tools that are specifically tailored to the characteristics and challenges of such processes. It calls for a new Product Lifecycle Management paradigm of utilizing the managed product data for management of the product's development process. Within the framework, the methods used are enhanced or modified to fit the new-product development process requirements. Each specific method is exhaustively analyzed, from the basic definition of terms through a description of the state of the art of that topic and its limitations. Then, the method enhancements are illustrated by many examples, and discussed while suggesting further research directions. Finally, the enhanced methods are integrated and demonstrated by a test case. The main two methods described are the design structure matrix (DSM) and Petri nets, which are merged into a novel concept entitled DSM nets. Managing the Dynamics of New Product Development Processes provides algorithms, proofs, and practical examples that can be used for general study of the issues concerned. The main concepts presented are applicable to systems engineering and can be used by practitioners of product development processes, such as designers, product managers, and process managers, as well as developers of process management tools for systems with dynamically changing process structures.

- Product Lifecycle Management