

Environmentally-Friendly Product Development Methods and Tools



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Environmentally Friendly Product Development Methods And Tools:

Environmentally-Friendly Product Development Eberhard Abele,Reiner Anderl,Herbert Birkhofer,2007-08-06

Development of environmentally friendly products gains an increasing portance in science and in industry While product development was strongly dedicated to achieve quality cost and time targets environmental issues indirectly had always been under consideration by engineers see Fig 1 Furthermore a methodology for the development of environm tally sound products was missing Despite of significant progress in using computer aided tools for product development and design environmental aspects were attended Computer aided tools typically do not include methods for considering environmental issues enabling the designer to sess a product s environmental effects Fig 1 Vision of Environment as a key target for product development v vi Preface Product related environmental issues are getting more and more political and public awareness Development of environmentally friendly products has become an action item for both politics and industry UNFCCC 1997 Energy consumption is on the agenda and covers pollution and resource saving Typical topics of directives of the European Union are waste noise air pollution water nature and biodiversity soil protection civil protection and climate change After the translation into national law the development of environmentally friendly products is a basic approach to contribute to the fulfilment of the topics mentioned above In the European Community a Communication from the Commission to the Council and the European Parliament on Integrated Product Policy was adopted on th 18 June 2003 EC 2003

Sustainable Product Development Daizhong Su,2020-05-12 This book offers a comprehensive review of sustainability and product design providing useful information on the relevant regulations and standards for industries to meet increasing market demands for eco products while reducing their impact on the environment The examples and methods presented allow readers to gain insights into sustainable products The authors also explain how to develop products with sustainability features by applying tools and methods for sustainable design and manufacture These tools methods include Regulations directives related to sustainable product development Popular lifecycle analysis software packages Environmental and social lifecycle impact assessment methods Lifecycle inventory databases Eco point and eco accounting infrastructure ICT and traceability technologies for sustainable product development Sustainable design and manufacture Integrated approach for sustainable product development A description of each sustainability tool is accompanied by easy to understand guidelines as well as sustainable product development methods Five different case studies are also presented to illustrate how to apply the tools and methods into the development of real sustainable products In view of the increasing pressure on industries to meet the sometimes conflicting demands of the market and environment this book is a valuable resource for engineers and managers in manufacturing companies wishing to update their knowledge of sustainable product development It is also suitable for researchers and consultants who are involved or interested in sustainable product development as well as for students studying sustainable development production and engineering management

Global Product Development

Alain Bernard,2011-05-05 This book of proceedings is the synthesis of all the papers including keynotes presented during the 20th CIRP Design conference The book is structured with respect to several topics in fact the main topics that serve at structuring the program For each of them high quality papers are provided The main topic of the conference was Global Product Development This includes technical organizational informational theoretical environmental performance evaluation knowledge management and collaborative aspects Special sessions were related to innovation in particular extraction of knowledge from patents

Green Supply Chain Management Joseph Sarkis,Yijie Dou,2017-10-05 This book gives students a thorough overview of the environmental issues that impact the supply chain and details strategic methods of addressing the political social technological market and economic concerns that have caused organizations to reconsider their impact Readers will learn how to integrate the fields of operations management procurement and purchasing logistics and marketing into a successful green supply chain looking outward to form sustainable partnerships rather than focusing their efforts within the company Each chapter describes a function or dimension of green supply chains supplemented with short vignettes to ground the theory in practice The authors examine various industries including electronics food products and manufacturing and draw on case studies from the Americas Europe Asia and Oceania allowing students to compare and contrast domestic and international practices Blending industry insights with the latest academic thinking they also consider hot button topics like global local relationships the role of third parties green multitier supplier management and blockchain technology management Conclusive chapter summaries and plenty of visual aids help readers retain the information they need to improve environmental performance within and beyond their organizations *Green Supply Chain Management* is an excellent introduction to the topic for students and practitioners of supply chain management and environmental sustainability

Sustainable Manufacturing and Design Kaushik Kumar,Divya Zindani,J. Paulo Davim,2021-01-08 Sustainable Manufacturing and Design draws together research and practices from a wide range of disciplines to help engineers design more environmentally sustainable products Sustainable manufacturing requires that the entire manufacturing enterprise adopts sustainability goals at a system level in decision making hence the scope of this book covers a wide range of viewpoints in response Advice on recyclability zero landfill design sustainable quality systems and product take back issues make this a highly usable guide to the challenges facing engineering designers today Contributions from around the globe are included helping to form an international view of an issue that requires a global response Addresses methods to reduce energy and material waste through manufacturing design Helps to troubleshoot manufacturability problems that can arise in sustainable design Includes coverage of the legislative cultural and social impacts of sustainable manufacturing promoting a holistic view of the subject

Green Business: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2019-02-01 The issues of sustainability and corporate social responsibility have become vital discussions in many industries within the public and private sectors In the business realm incorporating

practices that serve the overall community and ecological wellbeing can also allow businesses to flourish economically and socially Green Business Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises focusing on how green approaches improve operations Highlighting a range of topics such as corporate sustainability green enterprises and circular economy this multi volume book is ideally designed for business executives business and marketing professionals business managers academicians and researchers actively involved in the business industry **Sustainable**

Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-10-31 To maintain a healthy ecosystem for contemporary society and for future generations policies must be implemented to protect the environment This can be achieved by consistent evaluation of new initiatives and strategies Sustainable Development Concepts Methodologies Tools and Applications is a comprehensive source of scholarly information on the latest research for sustainability concerns across a multidisciplinary perspective Highlighting a broad range of innovative topics such as renewable energy urban development and green technologies this multi volume book is ideally designed for academics researchers professionals students and practitioners interested in the preservation of the environment

Design and Assessment of Sustainable Products Magdalena Wojnarowska,Carlo Ingraio,2024-12-30 This book questions the current definition of what makes a product sustainable and argues that a holistic approach to sustainable product design is required one that considers all aspects of a product s life cycle from design to production to use and then final disposal This edited collection introduces a new set of methods and tools aligned with the concept of comprehensive sustainable produce design that integrates the environmental and social benefits of a product in line with the principles of a circular economy It provides a comprehensive understanding of the theoretical and practical framework that underpins a sustainable product highlighting the multiple key roles of eco design innovation quality and sustainability The authors describe the criteria for which products can be defined as being sustainable and outline how different manufacturing technologies influence the value of those products and the place they can find on the market accordingly The book s significant contribution lies in identifying the critical factors that are needed to successfully implement the framework throughout the entire life cycle of the product in a holistic integrated approach This book will be of interest for researchers and students studying sustainable product design environmental studies engineering and sustainable business management It will also be a useful resource for representatives of the business community managers technicians decision makers and consumers interested in sustainable product design issues **Green Innovations and IPR Management** Andree

Kirchner,Iris Kirchner-Freis,2013-03-01 There can no longer be any doubt that promoting green innovations is essential if we are to meet the challenges of sustainable development climate change and intergenerational equity With the maturity of this crucial awareness has come full recognition of the intellectual property rights of green innovators an area of international

law that has drawn a host of initiatives not only from lawyers and legal scholars but also from highly knowledgeable and well placed authorities such as the World Intellectual Property Organization the European Patent Office the United Nations Environment Program the International Tribunal for the Law of the Sea the International Centre for Trade and Sustainable Development the European Commission and national environmental agencies In this first ever survey and analysis of the current and emerging state of the field twenty two outstanding practitioners academics policymakers and officials describe the relevant work of all of these groups Among the array of topics covered are the following vast diversity of products services and processes legacy IP measures from R role of green technology s moral underpinning wide open startup vs exorbitant up front cost and licensing issues in technology transfer Although primarily intended for professionals concerned with the legal aspects of green technology lawyers policymakers agency officials academics this book will also be of great value to inventors and technology companies as a guide to mechanisms for managing and sharing intellectual property rights in the context of green innovations It is sure to engage a wide audience for years to come Sustainability Through Innovation in Product Life Cycle Design Mitsutaka Matsumoto,Keijiro Masui,Shinichi Fukushige,Shinsuke Kondoh,2016-09-19 This book consists of chapters based on selected papers presented at the EcoDesign2015 symposium 9th International Symposium on Environmentally Conscious Design and Inverse Manufacturing The symposium taking place in Tokyo in December 2015 has been leading the research and practices of eco design of products and product related services since it was first held in 1999 The proceedings of EcoDesign2011 were also published by Springer Eco design of products and product related services or product life cycle design are indispensable to realize the circular economy and to increase resource efficiencies of our society This book covers the state of the art of the research and the practices in eco design which are necessary in both developed and developing countries The chapters of the book all of which were peer reviewed have been contributed by authors from around the world especially from East Asia Europe and Southeast Asia The features of the book include 1 coverage of the latest topics in the field e g global eco design management data usage in eco design and social perspectives in eco design 2 an increased number of authors from Southeast Asian countries with a greater emphasis on eco design in emerging economies 3 high quality manuscripts with the number of chapters less than half of that of the previous book Sustainable Manufacturing Günther Seliger,2012-06-30 The annual series Global Conferences on Sustainable Manufacturing GCSM sponsored by the International Academy for Production Engineering CIRP is committed to excellence in the creation of sustainable products and processes that conserve energy and natural resources have minimal negative impacts upon the natural environment and society and adhere to the core principle of sustainability by considering the needs of the present without compromising the ability of future generations to meet their own needs To promote this noble goal there is a great need for increased awareness in education and training including the dissemination of new findings on principles and practices of sustainability applied to manufacturing The series Global Conferences on Sustainable

Manufacturing offers international colleagues the opportunity to network expand their knowledge and improve practice globally *Green Technologies: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources,2011-03-31 Green Technologies Concepts Methodologies Tools and Applications assembles the most up to date collection of research results and recent discoveries in environmental and green technology This comprehensive anthology covers a wide range of topics i Advances in Industrial and Production Engineering Kripa Shanker,Ravi Shankar,Rahul Sindhwani,2019-04-23 This book comprises select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2018 The book discusses different topics of industrial and production engineering such as sustainable manufacturing systems computer aided engineering rapid prototyping manufacturing management and automation metrology manufacturing process optimization casting welding machining and machine tools The contents of this book will be useful for researchers as well as professionals Advertising and Branding: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-01-06 Effective marketing techniques are a driving force behind the success or failure of a particular product or service When utilized correctly such methods increase competitive advantage and customer engagement Advertising and Branding Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on emerging technologies techniques strategies and theories for the development of advertising and branding campaigns in the modern marketplace Featuring extensive coverage across a range of topics such as customer retention brand identity and global advertising this innovative publication is ideally designed for professionals researchers academics students managers and practitioners actively involved in the marketing industry Green Economy and Sustainable Development Vijay Prakash Gupta,A. K. Haghi,Shebin Sharief,2025-08-11 This proposed book explores the intricate world of green and sustainable economy practices within today s business landscape It offers a comprehensive exploration of the latest developments and applications in areas such as Responsible Consumption and Production Sustainable Cities and Communities and Renewable Energy Drawing from interdisciplinary fields including environment and economy the book employs simulation based models and statistical tools to provide insights and solutions for real world challenges faced by businesses This proposed book is especially tailored for postgraduate students scholars and researchers in business management and engineering and this book bridges theory with practical implementation emphasizing the importance of quality decision making to foster a conducive business ecosystem and advance sustainability goals **Sustainable Practices: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2013-12-31 This reference explores some of the most recent developments in sustainability delving into topics beyond environmental science to cover issues of sustainable economic political and social development Provided by publisher Design for Environment as a Tool for the Development of a Sustainable Supply Chain Maurizio Bevilacqua,Filippo Emanuele Ciarapica,Giancarlo Giacchetta,2012-01-05 Environmental Design is becoming an

increasingly significant agenda for many manufacturing companies and yet there is no standard to their approaches strategies or their levels of execution Applying Design for Environment DfE methodologies to develop a more sustainable supply chain has formed procedures and techniques which allow designers to integrate these methods with environmental supply chain management Design for Environment as a Tool for the Development of a Sustainable Supply Chain aims to define relevant target specifications for a product throughout its life cycle from conception and design to the end of its operating life Be considering this new approach to the supply chain environmental responsiveness can work in tandem with sounds business management The usual focus on suppliers manufacturers and customers is expanded in Design for Environment as a Tool for the Development of a Sustainable Supply Chain to include stakeholders such as government bodies and recycling companies The influence of these additional groups is analyzed alongside concepts such as Product life cycle development aimed at environmental impact minimization Supplier selection and management based on environmental criteria and Marketing and communication choices which increase the value of environmentally sensitive products By including several case studies alongside theoretical topics Design for Environment as a Tool for the Development of a Sustainable Supply Chains acts as a foundation for professionals across the supply chain from industrial designers to marketing and sales departments who are involved in environmental issues

Complex Systems Concurrent Engineering Geilson Loureiro,Richard Curran,2007-08-10 This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering held in S o Jos dos Campos S o Paulo Brazil on the 16th 20th of July 2007 It highlights the application of concurrent engineering to the development of complex systems

Mechatronics in Action David Bradley,David W. Russell,2010-04-15 Mechatronics in Action s case study approach provides the most effective means of illustrating how mechatronics can make products and systems more flexible more responsive and possess higher levels of functionality than would otherwise be possible The series of case studies serves to illustrate how a mechatronic approach has been used to achieve enhanced performance through the transfer of functionality from the mechanical domain to electronics and software Mechatronics in Action not only provides readers with access to a range of case studies and the experts view of these but also offers case studies in course design and development to support tutors in making the best and most effective use of the technical coverage provided It provides in an easily accessible form a means of increasing the understanding of the mechatronic concept while giving both students and tutors substantial technical insight into how this concept has been developed and used

Green Chemistry for the Development of Eco-Friendly Products Chahal, Kavita Shakya,Solanki, Twinkle,2022-06-10 In today s world it has become necessary to shift towards a more eco friendly and sustainable approach in the industrial field to reduce pollution and stop toxic chemicals from entering the environment Green chemistry is an emerging concept that can be utilized to assist with these environmental issues To ensure this concept is employed to its full potential further study on the best practices and challenges of implementation are required Green Chemistry for the

Development of Eco Friendly Products discusses the main objective of green chemistry and how it can redefine and modify manufacturing processes and products in order to decrease hazards to human health The book also considers key concepts of green chemistry such as the need to make better use of available resources for the development of a chemical process Covering critical topics such as bioplastics waste and hydrogen law this reference work is ideal for chemists business owners environmentalists policymakers academicians scholars researchers practitioners instructors and students

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