

Environmentally-Friendly Product Development Methods and Tools



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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 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 **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 **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 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

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

Complex Systems Concurrent Engineering Geilson Loureiro, Richard Curran, 2007-08-10 Concurrent engineering is well established as an approach to engineer product parts However the concept has much broader application Complex Systems Concurrent Engineering Collaboration Technology Innovation and Sustainability demonstrates how concurrent engineering can be used to benefit the development of complex systems to produce results that sustain balanced stakeholder satisfaction over time The collected papers cover all aspects of the sustainable and integrated development of complex systems such as airplanes satellites space vehicles automobiles and ships Complex Systems Concurrent Engineering Collaboration Technology Innovation and Sustainability focuses on five major areas Knowledge and collaboration engineering and management Systems engineering analysis modelling simulation and optimisation including value cost risk and schedule issues Product realisation processes methods technologies and techniques Business management and organisation issues product life cycle processes other than development and manufacturing and Information modelling technology and systems

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

Sustainability Through Innovation in Product Life Cycle Design Mitsutaka Matsumoto, Keijiro Masui, Shinichi Fukushima, 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

Design Tools and Methods in Industrial Engineering IV Paolo Di Stefano, Francesco Gherardini, Vincenzo Nigrelli, Caterina Rizzi, Gaetano Sequenzia, Davide Tumino, 2025-02-08 This book gathers original peer reviewed papers reporting on innovative methods and tools in design modeling simulation and optimization and their applications in engineering design manufacturing and other relevant industrial sectors Based on contributions to the Fourth International Conference on Design Tools and Methods in Industrial Engineering ADM 2024 held on September 11 13 2024 in Palermo Italy and organized by the Italian Association of Design Methods and Tools for Industrial Engineering and the Department of Engineering of the University of Palermo this first volume of a 2 volume set focuses on advances in design for additive manufacturing product design and engineering design for sustainability and ecoDesign experimental methods in product development and integrated methods for product and process design Further topics include simulation analysis and optimization design of collaborative and soft robots geometrical product specification and tolerancing and design methods for mobility This book provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing

Green Design, Materials and Manufacturing Processes Helena Bartolo, Paulo Jorge Da Silva Bartolo, Nuno Manuel Fernandes Alves, Artur Jorge Mateus, Henrique Amorim Almeida, Ana Cristina Soares Lemos, Flávio Craveiro, Carina Ramos, Igor Reis, Lina Durão, Telma Ferreira, José Pinto Duarte, Filipa Roseta, Eduardo Castro e Costa, Filipe Quaresma, João Paulouro Neves, 2013-06-06 The rise of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product s lifecycle Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century in the move towards the next generation of manufacturing and processing technologies The manufacturing industry has reached a turning point in its evolution and new business opportunities are emerging With sustainable development arises the immense challenge of combining innovative ideas regarding design materials and products with non polluting processes and technologies conserving energy and other natural resources On the other hand sustainability has become a key concern for government policies businesses and the general public Model cities are embracing novel ecosystems combining environmental social and economic issues in more inclusive and integrated frameworks Green Design Materials and Manufacturing Processes includes essential research in the field of sustainable intelligent manufacturing and related topics making a significant contribution to further development of these fields The volume contains reviewed papers presented at the 2nd International Conference on Sustainable Intelligent Manufacturing conjointly organized by the Centre for Rapid and Sustainable Product Development Polytechnic Institute of

Leiria and the Faculty of Architecture Technical University of Lisbon both in Portugal This event was held at the facilities of the Faculty of Architecture Lisbon from June 26 to June 29 2013 A wide range of topics is covered such as Eco Design and Innovation Energy Efficiency Green and Smart Manufacturing Green Transportation Life Cycle Engineering Renewable Energy Technologies Reuse and Recycling Techniques Smart Design Smart Materials Sustainable Business Models and Sustainable Construction Green Design Materials and Manufacturing Processes is intended for engineers architects designers economists and manufacturers who are actively engaged in the advancement of science and technology regarding key sustainability issues leading to more suitable efficient and sustainable products materials and processes **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 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

Innovating for Sustainability Luca Berchicci, 2008-09-03 One of the challenges met by green entrepreneurs and product developers who have tried to develop more sustainable products is that efforts to have better products in environmental terms do not always translate into effective business cases The purpose of this book is a better understanding of the implications of environmental issues in new product development Through an empirical study in the human powered vehicle sector Luca Berchicci examines how and to what extent the environmental ambition of product developers and managers influences the way new products and services are developed The understanding of this phenomenon is particularly important since managers are encouraged and or motivated to undertake environmental new product development projects From the descriptions and analyses of the two cases study Luca Berchicci suggests that a high level of environmental ambition increases the complexity of the product innovation process Moreover a high level of environmental ambition may hamper a product innovation process because it may lead the developers away from the market that their product is to serve Accordingly this book attempts to explain and predict how environmental ambition influences new product development processes This claim provides a theoretical contribution to existing research in both product innovation and green product innovation Moreover this book provides an original and deep insight on the diverse facets of greening Green Approaches to Biocomposite Materials Science and Engineering Verma, Deepak, Jain, Siddharth, Zhang, Xiaolei, Gope, Prakash Chandra, 2016-06-16 Industrial ecology eco efficiency and green chemistry are guiding the development of the next generation of materials products and processes Considerable growth has been seen in the use of biocomposites in the domestic sector building materials aerospace industry circuit boards and automotive applications over the past decade but application in other sectors until now has been limited Green Approaches to Biocomposite Materials Science and Engineering explores timely research on the various available types of natural fibers and the use of these fibers as a sustainable alternative to synthetic fibers and polymers Emphasizing research based solutions for sustainability across various industries this publication is an essential reference source for engineers researchers environmental scientists and graduate level students

Supply Chain Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-12-31 In order to keep up with the constant changes in technology business have adopted supply chain management to improve competitive strategies on a strategic and operational level Supply Chain Management Concepts Methodologies Tools and Applications is a reference collection which highlights the major concepts and issues in the application and advancement of supply chain management Including research from leading scholars this resource will be useful for academics students and practitioners interested in the continuous study of supply chain management and its

influences The Synergy of Sustainable Entrepreneurship Neu, Russ,Qian, Xiaojun,Yu, Poshan,2024-12-26 Sustainable entrepreneurship has emerged as a critical field of study focusing on the intersection of business and sustainability In order to ensure sustainable development it is essential to explore this dynamic relationship by examining the ways in which entrepreneurs can integrate sustainable practices into their ventures and how sustainability considerations can drive innovation and create new entrepreneurial opportunities The Synergy of Sustainable Entrepreneurship addresses key themes and topics related to sustainable entrepreneurship providing a multidisciplinary perspective that encompasses various industries regions and contexts It explores theoretical foundations practical strategies and policy implications of sustainable entrepreneurship Covering topics such as circular economy product development and social entrepreneurship this book is a valuable resource for academicians researchers postgraduate students entrepreneurs policymakers government officials and more *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 **Advanced Design and Manufacture V** Dai Zhong Su,Shi Fan Zhu,2013-09-18 Volume is indexed by Thomson Reuters BCI WoS The book is a prestigious collection of refereed papers in advanced design manufacture and related subject areas The 161 papers are grouped as follows I Sustainable Development and Technologies II Product Industrial Design and Design Methodologies III Engineering Design IV Production Manufacture and Engineering Materials V CAD CAM CAE VI Gearing Mechanical Transmission and Mechanisms VII Machine Condition Monitoring VIII Finite Boundary Element Methods IX Optimisation Simulation and Computing Technologies X Manufacturing Informatics XI Robots and Control XII Engineering Management and Enterprise

Environmentally Friendly Product Development Methods And Tools Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Environmentally Friendly Product Development Methods And Tools**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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