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Amaresh Chakrabarti, Vishal Singh, Shakuntala Acharya

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Product Design and Development Karl T. Ulrich,

Whole System Design Peter Stasinopoulos, Michael H. Smith, Karlson Hargroves, Cheryl Desha, 2013-01-11 Whole System Design is increasingly being seen as one of the most cost effective ways to both increase the productivity and reduce the negative environmental impacts of an engineered system A focus on design is critical as the output from this stage of the project locks in most of the economic and environmental performance of the designed system throughout its life which can span from a few years to many decades Indeed it is now widely acknowledged that all designers particularly engineers architects and industrial designers need to be able to understand and implement a whole system design approach This book provides a clear design methodology based on leading efforts in the field and is supported by worked examples that demonstrate how advances in energy materials and water productivity can be achieved through applying an integrated approach to sustainable engineering Chapters 1 5 outline the approach and explain how it can be implemented to enhance the established Systems Engineering framework Chapters 6 10 demonstrate through detailed worked examples the application of the approach to industrial pumping systems passenger vehicles electronics and computer systems temperature control of buildings and domestic water systems Published with The Natural Edge Project the World Federation of Engineering Organizations UNESCO and the Australian Government Handbook of Research on Trends in Product Design and Development: Technological and Organizational Perspectives Silva, Arlindo, Simoes, Ricardo, 2010-07-31 This book provides a detailed view on the current issues trends challenges and future perspectives on product design and development an area of growing interest and increasingly recognized importance for industrial competitiveness and economic growth

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Rapitsenyane, 2023-09-07 The underlying principle of this book is the African philosophy of Ubuntu which acts as a guide for developing empathic products and services The book makes the case that empathy is the key to any successful product and service design project because it enables designers to make wise design choices that align with users demands Fifteen chapters provide the latest industrial design developments techniques and processes explicitly targeting emerging economies At the outset it covers the design context and the philosophy of the Ubuntu approach which places people and communities at the centre of the development agenda The book covers new product development design research design cognition digital and traditional prototyping bringing products to the market establishing a company s brand name intellectual property rights traditional knowledge and the business case for design in Afrika It concludes with a discussion about the future of design and the skills aspiring designers will need African Industrial Design Practice Perspectives on Ubuntu Philosophy will be an essential textbook for undergraduates postgraduates instructors and beginner designers in emerging economies to provide regionally contextualised design processes illustrated examples and outcomes Chapter 2 of this book is freely available as a downloadable Open Access PDF at http www taylorfrancis com under a Creative Commons Attribution Non Commercial No Product and Process Design Jan Harmsen, André B. de Haan, Pieter L. J. Derivatives CC BY NC ND 4 0 license Swinkels, 2024-05-20 Product and process design driving sustainable innovation is the 2nd edition of a comprehensive textbook for product and process design courses at BSc MSc EngD and PhD level It covers both heuristics based design methods as well as systems engineering approaches It contains specific methods to co design products and processes so that both designs are better than when these designs are made separately This integrated combination makes the book unique For making designs that contribute to the Sustainable Development Goals of the United Nations specific methods are provided for the People Planet and Prosperity dimensions This second edition of the book includes examples and exercises for each design method which makes it very suitable for teaching purposes The book is furthermore of interest to industrial process and product developers for many industry branches as it provides methods for design modelling and experimental validation for each innovation stage It is also very useful for R D managers as it provides guidelines for essential activities in each innovation stage discovery concept feasibility development detailed engineering leading to successful implementations of new processes and new products

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