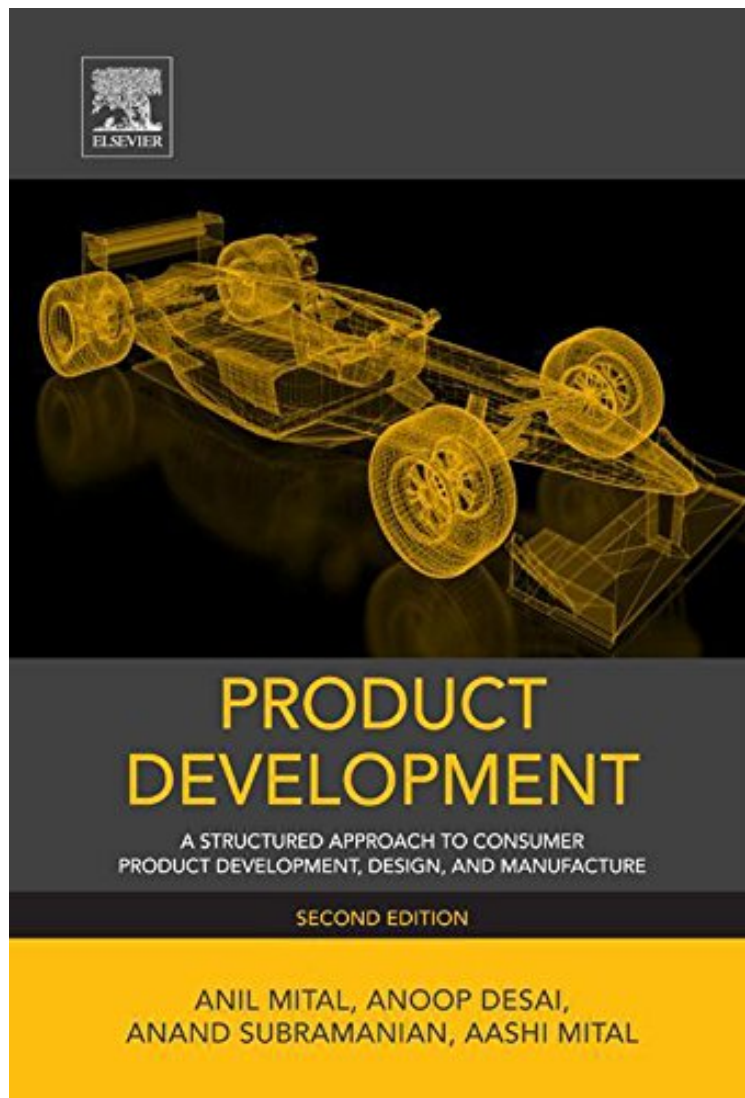


(Free pdf) Product Development: A Structured Approach to Consumer Product Development, Design, and Manufacture

Product Development: A Structured Approach to Consumer Product Development, Design, and Manufacture

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Anil Mital, Anoop Desai, Anand Subramanian, Aashi Mital : Product Development: A Structured Approach to Consumer Product Development, Design, and Manufacture before purchasing it in order to gage whether or not it would be worth my time, and all praised Product Development: A Structured Approach to Consumer Product Development, Design, and Manufacture:

Product development teams are composed of an integrated group of professionals working from the nascent stage of new product planning through design creation and design review and then on to manufacturing planning and cost accounting. An increasingly large number of graduate and professional training programs are aimed at meeting that need by creating a better understanding of how to integrate and accelerate the entire product development process. This book is the perfect accompaniment and a comprehensive guide. The second edition of this instructional reference work presents invaluable insight into the concurrent nature of the multidisciplinary product development process. It can be used in the traditional classroom, in professional continuing education courses or for self-study. This book has a ready audience among graduate students in mechanical and industrial engineering, as well as in many MBA programs focused on manufacturing management. This is a global need that will find a receptive readership in the industrialized world particularly in the rapidly developing industrial economies of South Asia and Southeast Asia. Reviews the precepts of Product design in a step-by-step structured process and focuses on the concurrent nature of product design. Helps the reader to understand the connection between initial design and interim and final design, including design review and materials selection. Offers insight into roles played by product functionality, ease-of assembly, maintenance and durability, and their interaction with cost estimation and manufacturability through the application of design principles to actual products.

About the Author Anil Mital is Professor of Manufacturing Design and Engineering at the University of Cincinnati. He is also the former Professor and Director of Industrial Engineering and a Professor of Physical Medicine and Rehabilitation at the University of Cincinnati. Dr. Mital is the founding Editor-in-Chief Emeritus of Elsevier's International Journal of Industrial Ergonomics and is the founding Editor-in-Chief of the International Journal of Industrial Engineering - Theory, Applications, and Practice. Dr. Mital has authored and coauthored nearly 500 publications, including 200 journal articles and 23 books. He has made over 200 technical presentations in various parts of the world. He frequently conducts seminars in different countries on a wide range of topics, such as work design, engineering economy, facilities planning, human-centered manufacturing, ergonomics, and product design. Dr. Mital is a Fellow of the Institute of Industrial Engineers (IIE) and the Human Factors and Ergonomics Society (HFES). He also is a recipient of IIE's David F. Baker Distinguished Research Award, HFES's Paul M. Fitts Educational Award, and the Society of Automotive Engineers's Ralph Teetor Educational Award. Dr. Mital has been recognized by the Engineering Economy Division of IIE through its Eugene Grant Award and by the Society of Work Sciences through its M. M. Ayoub Award. Anoop Desai is Associate Professor in the College of Science and Technology at Georgia Southern University, Statesboro. He received his Ph.D. in industrial and manufacturing engineering from the University of Cincinnati in 2006. Dr. Desai's main research interests are product life-cycle management and design. His research deals extensively with Design for X principles, focusing primarily on green design, environment conscious manufacturing, and design and maintainability. He also is actively involved in research and teaching related to different aspects of engineering economy and new product development. Dr. Desai has written over 25 articles, including 13 journal papers, and his research work has been widely cited. Anand Subramanian is a Senior Engineer at JFAssociates, Inc., based in the Washington, D.C., area. He received his doctoral and masters degrees in Industrial Engineering from the University of Cincinnati, Ohio, and a bachelors degree in Production Engineering from the University of Bombay, India. Dr. Subramanian has been associated with JFAssociates, Inc., since 2003, where his responsibilities include experimental design, data collection, statistical data analysis, and data interpretation and documentation. His areas of expertise include ergonomic evaluations, economic analyses, facilities planning, warehouse design, and time and motion studies. He coauthored a number of journal publications and made presentations at a number of industrial engineering conferences. Aashi Mital currently is pursuing degrees in Finance and Political Science at the University of Cincinnati. Her areas of interest include finance and accounting as well as journalism. She also enjoys history and the performing arts, including the theater, the opera, and dance.