Managing Research, Development And Innovation: Managing The Unmanageable

managing
research,
development,
and innovation
THIRD EDITION

Managing the Unmanageable

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Synopsis

Now fully revised and updatedâ ”the classic book on effective R&D management "This thoughtful and detailed work outlines what is required in order to achieve the desired end results in a networked world where teamwork and collaboration are increasingly important to globally dispersed workforces." â ”John Chambers, Chairman and CEO, Cisco Praise for the Second Edition "This is a superbly written book and could make an excellent reference and text for related university courses." â ”E. Lile Murphree, Jr., PhD, former Chairman, Department of Engineering Management, The George Washington University "Provides a superb exposition of the role that social and psychological phenomena play in today's organizations." â ”Fred E. Fiedler, Professor of Psychology Emeritus, University of Washington, Seattle As the economy shifts from producing goods to producing information, the role of researchers in shaping the future has become immense. By taking advantage of modern technology, the highly trained and predominantly autonomous researchers from around the globe collect and share information better than everâ ”yet, there is still a lack of an effective centralized structure for an R&D organization manager to integrate the efforts from many disparate individuals into a unified plan. Managing Research, Development, and Innovation, Third Edition covers the management skills and leadership theories essential to generating products and excelling in today's global economy. Topics of interest include how to design jobs, organize hierarchies, resolve conflicts, motivate employees, and create an innovative work environment. Discover how superior management skills can increase funding, generate profit, and improve the effectiveness of technologically based organizations. This new revised edition: Covers all aspects of the research and development processâ ”with focus on the human management function   Includes two new chapters covering the innovation process critical to research and development of new products and services   Outlines the challenging issues related to diversity in science and technology organizations and provides insights as to how diversity can be used to enhance creativity   Managing Research, Development, and Innovation, Third Edition is the most complete, insightful book of its kind. Useful for professionals and graduate students alike, the text demonstrates in clear, straightforward prose how good management skills will shape the future.

Book Information

Customer Reviews

Managing Research, Development and Innovation: Managing the Unmanageable (CourseSmart)Managing the Unmanageable - Managing R&D and Innovation is a book that should be read by every engineer and educator employed in R&D labs and academia. The second edition of Managing Unmanageable came at a critical time of my career which has helped me walk through the difficult path of dealing with R&D management issues (as head of two research organizations at a university level) while working as a full-time professor with a large research group of my own.Chapters 5, 6, 7, 9, and 10 present issues that I face quite frequently in the organizations I lead. The authors present in-depth analysis of problems and possible solutions. In Chapter 14, the authors highlight the management of technological innovations including commercialization. Small or large, public or private, most universities are gearing up for commercialization of the products of faculty research. Chapter 14 is a timely topic for most faculty members involved in research. Chapter 15 provides an excellent description about universality research. The chapter makes a case for investment in basic research and the linkage between industry and university.The book can be an excellent desk reference for engineering research managers. Also, the book can be used as a text book for engineering management classes.

A very well done and thought provoking work to allow the reader to gain insight on the challenges and opportunities of managing research and development in a fast-paced technology world. The contrast of success of those managers who possess technical skills vs. administrative skills is a foundational concept which the book treats thoroughly, along with basic vs. applied research as different disciplines. There's a recognition that behaviors and attitudes play a role- too often not considered. Well done!

An outstanding addition to any library; its contemporary discussion of an age-old problem certainly highlights strategies that can help anyone in industry, academia, or even home! Organizations are not numbers, they have personalities, and the authors are quick to recognize this important detail. I refer to it regularly, and will recommend it to colleagues and friends alike. Nicely done! The research is relevant and timely, and the authors should be commended for this excellent accomplishment.

This is a well outlined, thought-provoking book, full of good content for the novice and experienced managers of research level personnel. I recommend this book to anyone supervising faculty or research associates, particularly managers responsible for extracting the maximum value from direct reports in a research enterprise. This book discusses research and development, and how managing organizations responsible for these activities is unique and challenging. It provides unique ideas for promoting the effectiveness of R&D organizations by effectively managing conflict, motivating and influencing people.

This book is a useful tool to guide leaders, practitioners, and researchers in any enterprise. It provides clear and concise methodologies to deal with the complex issues and challenges that arise in academic institutions, and in profit and non profit organizations alike. It should be required reading for decision makers and those who aspire to be one.

Today, innovation, research and development more and more orient to "problem-solving" toward the global social and environmental challenges. They are playing a more and more significant role in all fields of global modern civilization and economy. All of us are facing a big challenge of how to well organize a multi-disciplinary team with proper management in order to catch up the fast increasing needs in doing innovation, research and development. This book provides us with decent knowledge in managing the "unmanageable".Well written by authorities in this field, it provides a comprehensive guide to R&D organization based on their theoretical exploration as well as their management practices. This book can be considered to serve as an instructive tool for research and development organizations, and faculty members, department heads, and research administrators at academic institutions.Written as a comprehensive guide, this book covers nearly every important aspect in managing R&D organization, from the micro-level management perspective to the macro-level understanding of science policy, from the birth of innovation to technical transfer, from the theory of individual behavior to potential challenges aroused by multicultural cooperation, etc.

With the topics clearly developed with a vivid combination of theoretical analysis, models and case analyses, this book is desirable text book for individuals seeking for knowledge about R&D organization management courses.Based on my over 20 years' experience in graduates teaching and supervision, I would say this book is good for graduates education and training. It is really great to know that this thoughtful and excellent works have been published both in English and Chinese. I am going to recommend my colleagues to use this book as their elective course for graduate's education both in USA and China.

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