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emerging technologies. The contributors are organized in five parts. Part I, Managing Emerging Technologies, provides methods and tools to understand the challenges created by the emergence of new technologies. Part II, Technology and Engineering Management Tools and Policies, explores different technology and engineering tools, including topics such as product concept development, design, selection, and adoption, using technology roadmaps and bibliometrics. Part III, Technological Innovation and Entrepreneurship, explores R&D, knowledge transfer, and entrepreneurial education. Part IV, Commercialization of Technological Innovations, explores the development and application of the technology transfer process which allows managers to succeed in commercializing the outcomes of R&D projects. Part V, Managing the Engineering Enterprise, explores the effects of economic decision-making, leadership style, change management, and quality management on an organization's ability to plan and execute initiatives and projects. Research and Development has always played a critical role in the engineering and technology focused industries. In an era of big data and smart applications, knowledge has become a key enabler for R&D. Managing R&D in the knowledge era requires use of key tools and methods. However, emerging technologies pose many challenges and cause uncertainties or discontinuities, which make the task of managing R&D even more difficult. This book will examine these challenges and provide tools and methods to overcome them. Exploring such industries as automotive, healthcare, business intelligence, energy and home appliances, this book is a valuable resource for academics, scholars, professionals, and leaders in innovation, R&D, technology, and engineering management. Editha H. Aria's Analytical Economics provides an advanced econometric analysis integrating the real-world (macroeconomics and microeconomics) of analyzing and/or synthesizing aggregate productivity and aggregate technology. The book's continuance and easy-to-follow chapters provide the key way of approach and methodology analysis. It will enable and enhance students, researchers and other users' understanding of how to measure aggregate productivity and technology shocks, including the evaluation of economic policies. Features include the following: A comprehensive literature survey and analysis on Total Factor Productivity (TFP) and Real Business Cycle (RBC) Models. Estimation of aggregate productivity and aggregate technology following TFP, productivity and technology literature. Efficiency, Estimation and Analysis of Aggregate Productivity using Data Envelopment Analysis and the Solow Model. 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