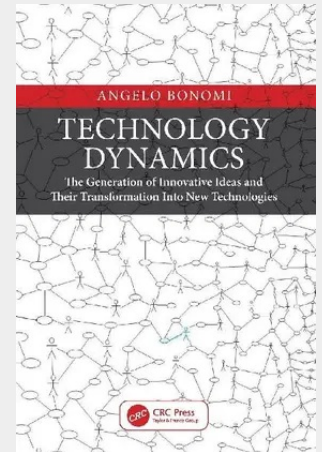


Technology Dynamics

The Generation of Innovative Ideas and Their Transformation Into New Technologies

While science and technology research, sources of funding, performance, incentives, and motivations for technology innovation activities are reasonably well understood by academics and policy makers, the complex process by which scientific results are exploited and transformed into new technologies through an innovation process is poorly documented and studied little. Technology Dynamics is dedicated to the complex activity of technology innovation, with the aim of describing how innovative ideas are generated and their transformation into new technologies. It is based on the idea that technology evolves continuously with time, is changed by innovations, and is characterized by a dynamic that is constituted by technological processes occurring in organizational structures, as well as during the use of technologies. The five chapters - Discuss technological processes for innovation; - Describe innovation within organizational structures; - Offer information on interfacing of science and economic factors with technology; - Suggest new statistical studies for innovation and new approaches for innovation policies; and - Examine the contribution of technology dynamics to statistical studies and promotion of technology innovation. This book is aimed at managers developing strategies for technology innovation, researchers interested in exploiting scientific results for innovative ideas and new technologies, scholars and students studying the economics of innovation. The book would also of interest to private or public financiers of innovation and policy makers involved in economic growth strategy.

The book describes the complex activity of technology innovation, the process of generation of innovative ideas, and their transformation into new technologies. It assumes that technology evolves continuously, is changed by innovations, and is characterized by a dynamics constituted by technological processes occurring in organizational structures.



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