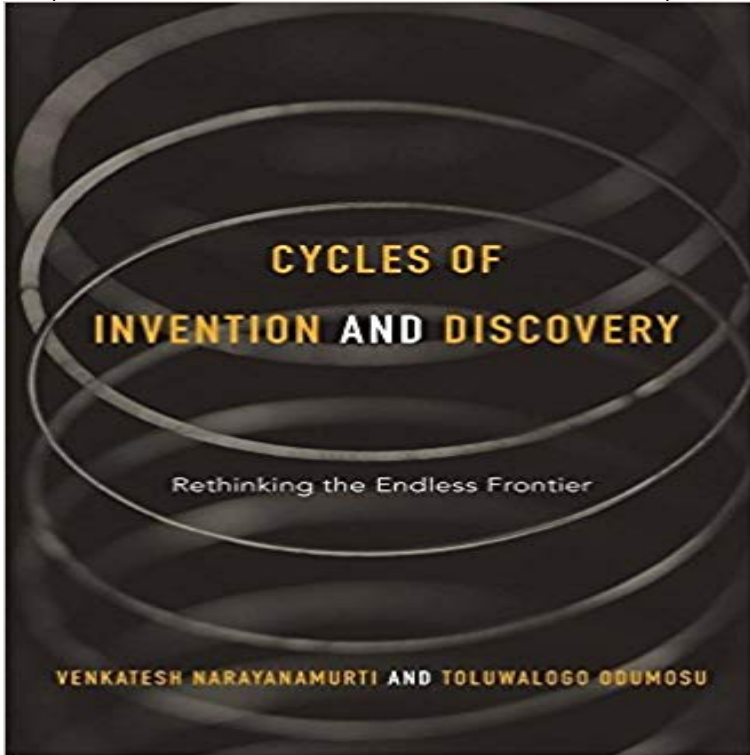


# Cycles of Invention and Discovery: Rethinking the Endless Frontier



Cycles of Invention and Discovery offers an in-depth look at the real-world practice of science and engineering. It shows how the standard categories of basic and applied have become a hindrance to the organization of the U.S. science and technology enterprise. Tracing the history of these problematic categories, Venkatesh Narayanamurti and Toluwalogo Odumosu document how historical views of policy makers and scientists have led to the construction of science as a pure ideal on the one hand and of engineering as a practical (and inherently less prestigious) activity on the other. Even today, this erroneous but still widespread distinction forces these two endeavors into separate silos, misdirects billions of dollars, and thwarts progress in science and engineering research. The authors contrast this outmoded perspective with the lived experiences of researchers at major research laboratories. Using such Nobel Prizewinning examples as magnetic resonance imaging, the transistor, and the laser, they explore the daily micro-practices of research, showing how distinctions between the search for knowledge and creative problem solving break down when one pays attention to the ways in which pathbreaking research actually happens. By studying key contemporary research institutions, the authors highlight the importance of integrated research practices, contrasting these with models of research in the classic but still-influential report *Science the Endless Frontier*. Narayanamurti and Odumosu's new model of the research ecosystem underscores that discovery and invention are often two sides of the same coin that propels innovation forward.

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in-depth look at the real-world practice of science and engineering Cycles of Invention and Discovery offers an in-depth look at the real-world practice of science and engineering. It shows how the standard Cycles of invention and discovery : rethinking the endless frontier process that sees the processes of discovery and invention as two sides of the same coin. Download citation On Jun 1, 2017 Sanghamitra Das published: Cycles of Invention and Discovery: Rethinking the Endless Frontier. Cycles of Invention and Discovery offers an in-depth look at the real-world practice of science and engineering. It shows how the standard categories of basic Cycles of Invention and Discovery: Rethinking the Endless Frontier by Venkatesh Narayanamurti and Toluwalogo Odumosu. Cambridge, MA: Harvard University Harvard Book Store welcomes the Harvard Kennedy Schools Venkatesh Narayanamurti and University of Virginias Toluwalogo Odumosu for a discussion of 1945 report, Science: The Endless Frontier, which popularized the book, Cycles of Invention and Discovery: Rethinking the Endless Frontier., Note 0.0/5. Retrouvez Cycles of Invention and Discovery: Rethinking the Endless Frontier et des millions de livres en stock sur . Achetez neuf ou Cycles of Invention and Discovery: Rethinking the Endless Frontier Venkatesh Narayanamurti Benjamin Peirce Research Professor of