

The book was found

# Internet Architecture And Innovation (MIT Press)



## Synopsis

Today -- following housing bubbles, bank collapses, and high unemployment -- the Internet remains the most reliable mechanism for fostering innovation and creating new wealth. The Internet's remarkable growth has been fueled by innovation. In this pathbreaking book, Barbara van Schewick argues that this explosion of innovation is not an accident, but a consequence of the Internet's architecture -- a consequence of technical choices regarding the Internet's inner structure that were made early in its history. The Internet's original architecture was based on four design principles: modularity, layering, and two versions of the celebrated but often misunderstood end-to-end arguments. But today, the Internet's architecture is changing in ways that deviate from the Internet's original design principles, removing the features that have fostered innovation and threatening the Internet's ability to spur economic growth, to improve democratic discourse, and to provide a decentralized environment for social and cultural interaction in which anyone can participate. If no one intervenes, network providers' interests will drive networks further away from the original design principles. If the Internet's value for society is to be preserved, van Schewick argues, policymakers will have to intervene and protect the features that were at the core of the Internet's success.

## Book Information

Series: MIT Press

Hardcover: 586 pages

Publisher: The MIT Press; New edition (June 18, 2010)

Language: English

ISBN-10: 0262013975

ISBN-13: 978-0262013970

Product Dimensions: 6 x 1.1 x 9 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars [See all reviews](#) (9 customer reviews)

Best Sellers Rank: #606,068 in Books (See Top 100 in Books) #70 in [Books > Computers & Technology > History & Culture > Computer & Internet Law](#) #90 in [Books > Law > Legal Theory & Systems > Science & Technology](#) #206 in [Books > Computers & Technology > History & Culture > History](#)

## Customer Reviews

This is an important and brilliant book, which I consider required reading for anyone interested in or serious about the Internet or innovation. I have written a review of this book on my blog ([...]) and on

the Huffington Post. As I say there, this book is one of the very few books in the field of Internet policy that is in the same league as Larry Lessig's *Code: And Other Laws of Cyberspace*, Version 2.0, in 2000, and Yochai Benkler's *The Wealth of Networks: How Social Production Transforms Markets and Freedom*, in 2006, in terms of its originality, depth, and importance to Internet policy and other disciplines. I expect the book to affect how people think about the Internet; about the interactions between law and technical architectures in all areas of law; about entrepreneurship in general. I also think her insights on innovation economics, which strike me as far more persuasive than lawyers' usual assumptions, should influence "law and economics" thinking for the better. Books this good don't come along every day--or even every year--and I'm already late to the praise-party.

I want to very highly recommend this book. Various authors, advocates, scholars, and businesses have spoken about the economic impacts of the Internet, but to date there hasn't been a detailed economic accounting of what may happen if/when ISPs monitor and control the flow of data across their networks. van Schewick has filled this gap. Her book traces economic impacts associated with changing the Internet's structure from one enabling any innovator to design an application or share content online to a structure where ISPs must first authorize access to content and design key applications (e.g. P2P, email, etc) in house. Barbara draws heavily from Internet history literatures and economic theory to buttress her position that a closed or highly controlled Internet not only constitutes a massive change in the architecture of the 'net, but that this change would be damaging to society's economic, cultural, and political interests. She argues that an increasingly controlled Internet is the future that many ISPs prefer, and supports this conclusion with economic theory and the historical actions of American telecommunications corporations. van Schewick begins by outlining two notions of the end-to-end principle undergirding the 'net, a narrow and broad conception, and argues (successfully, in my mind) that ISPs and their interrogators often rely on different end-to-end understandings in making their respective arguments to the public, regulators, and each other. This reliance on differing notions of end-to-end have led the defenders of these differing shades of the end-to-end principle to speak past one another.

[Download to continue reading...](#)

Internet Architecture and Innovation (MIT Press) Making in America: From Innovation to Market (MIT Press) ESP8266: Programming NodeMCU Using Arduino IDE - Get Started With ESP8266: (Internet Of Things, IOT, Projects In Internet Of Things, Internet Of Things for Beginners, NodeMCU Programming, ESP8266) Digital Crossroads: Telecommunications Law and Policy in the Internet

Age (MIT Press) Innovation and Its Discontents: How Our Broken Patent System is Endangering  
Innovation and Progress, and What to Do About It The Theory and Practice of Innovation Policy: An  
International Research Handbook (PRIME Series on Research and Innovation Policy in Europe)  
Thermal Delight in Architecture (MIT Press) Spaces Speak, Are You Listening?: Experiencing Aural  
Architecture (MIT Press) Design Thinking Research: Building Innovation Eco-Systems  
(Understanding Innovation) Simulating Innovation: Computer-Based Tools for Rethinking Innovation  
Shingle Styles. Innovation and tradition in American architecture, 1874 to 1982 Zeitmanagement mit  
Microsoft Office Outlook, 8. Auflage (einschl. Outlook 2010): Die Zeit im Griff mit der meistgenutzten  
BÃrosoftware - Strategien, Tipps ... (Versionen 2003 - 2010) (German Edition) Chinese  
Architecture and Metaphor: Song Culture in the Yingzao Fashi Building Manual (Spatial Habitus:  
Making and Meaning in Asia's Architecture) 27 Best Free Internet Marketing Tools And Resources  
for Cheapskates (Online Business Ideas & Internet Marketing Tips fo Book 1) Newton's Telecom  
Dictionary: covering Telecommunications, The Internet, The Cloud, Cellular, The Internet of Things,  
Security, Wireless, Satellites, ... Voice, Data, Images, Apps and Video Beyond Barbie and Mortal  
Kombat: New Perspectives on Gender and Gaming (MIT Press) Game Sound: An Introduction to  
the History, Theory, and Practice of Video Game Music and Sound Design (MIT Press) Finite State  
Machines in Hardware: Theory and Design (with VHDL and SystemVerilog) (MIT Press) Control and  
Freedom: Power and Paranoia in the Age of Fiber Optics (MIT Press) The Atom and the Fault:  
Experts, Earthquakes, and Nuclear Power (MIT Press)

[Dmca](#)