Network Coding: Fundamentals and Applications

From Academic Press

Network Coding: Fundamentals and Applications From Academic Press

Network coding is a field of information and coding theory and is a method of attaining maximum information flow in a network. This book is an ideal introduction for the communications and network engineer, working in research and development, who needs an intuitive introduction to network coding and to the increased performance and reliability it offers in many applications.

This book is an ideal introduction for the research and development communications and network engineer who needs an intuitive introduction to the theory and wishes to understand the increased performance and reliability it offers over a number of applications.

- A clear and intuitive introduction to network coding, avoiding difficult mathematics, which does not require a background in information theory.
- Emphasis on how network coding techniques can be implemented, using a wide range of applications in communications and network engineering
- Detailed coverage on content distribution networks, peer-to-peer networks, overlay networks, streaming and multimedia applications, storage networks, network security and military networks, reliable communication, wireless networks, delay-tolerant and disruption-tolerant networks, cellular and ad hoc networks (including LTE and WiMAX), and connections with data compression and compressed sensing
- Edited and contributed by the world's leading experts

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Editorial Review

Review

"Computer scientists, electrical engineers, and related professionals provide a tutorial introduction and survey of practical applications of network coding in various areas of networking and distributed computing. They write for researchers, practitioners, and graduate students who have a general background in networking but no prior exposure to network coding techniques or applications of network coding. The topics include harnessing network coding in wireless systems, network coding in the real world, network coding and user cooperation for streaming and download services in long term evolution networks, bounds and algorithms for secret and reliable communications, and network coding in disruption tolerant networks. Academic Press is an imprint of Elsevier."--**Reference and Research Book News, October 2012**

From the Back Cover

* A clear and intuitive introduction to network coding, and the applications it enables, which avoids difficult mathematics by not requiring a background in information theory.

* Emphasis on how network coding techniques can be implemented, using a wide range of applications in communications and network engineering

* Detailed coverage on content distribution networks, peer-to-peer networks, overlay networks, streaming and multimedia applications, network security and military networks, reliable communication, wireless networks, delay-tolerant and disruption-tolerant networks, cellular and ad hoc networks (including LTE), and connections with data compression.

* Edited and contributed to by the world's leading experts in network coding.

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