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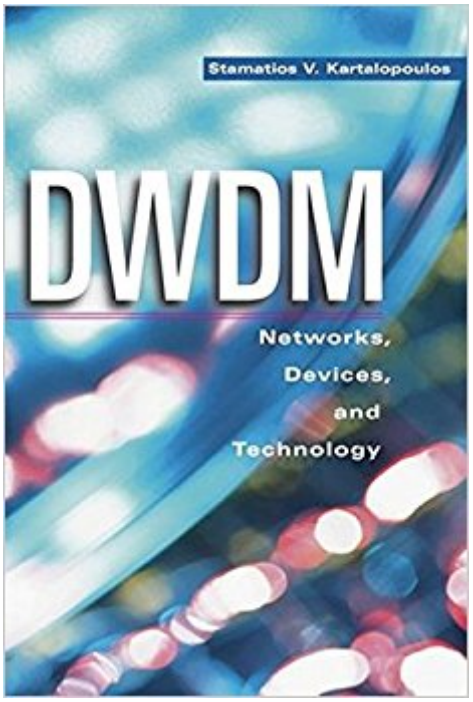
DWDM: Networks, Devices, And Technology



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Synopsis

An A-to-Z look at an increasingly important technology: DWDM The race for unprecedented bandwidth is on - and DWDM(Dense Wave-length Division Multiplexing) is opening the way. DWDM is the technology that allows multiple streams of data to flow in one optical fiber of optical communication network. DWDM is the key technology at the heart of new systems and networks that offers more bandwidth at less cost. Soon, DWDM promises to change bandwidth from a premium to a commodity item. DWDM: Networks, Devices, and Technology provides a comprehensive treatment of DWDM, its technology, systems, and networks, as well as engineering design. It explains how DWDM works, how it is used in system design, how optical network architecture can benefit from DWDM, and what the design issues are. Written by an expert in the field, the book covers: Current telecommunication networks and their issues Current telecommunication systems and networks New and emerging photonic technologies in development Optical and photonic physics that describe DWDM componentsÃƒÂ¢??the building blocks of DWDM - and how they are used New optical systems, devices, and networks that are replacing electronics How optical and photonic devices are used in photonic systems How DWDM systems are engineered and constructed using photonic components The strengths, faults, efficiencies, and issues relevant to DWDM systems and networks New emerging technologies Suitably detailed yet clear and concise, this is a comprehensive reference that makes this new technology wholly accessible to both practicing engineers and students.

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"...very well-written and easy to read...contains invaluable resources for DWDM implementations for both beginners and advanced readers." (IEEE Communications Magazine, September 2003) "...an outstanding source of knowledge about optical systems...very well written and easy to read..." (Comsoc.org, September 2003)

An A-to-Z look at an increasingly important technology: DWDM The race for unprecedented bandwidth is on--and DWDM (Dense Wave-length Division Multiplexing) is opening the way. DWDM is the technology that allows multiple streams of data to flow in one optical fiber of optical communication network. DWDM is the key technology at the heart of new systems and networks that offers more bandwidth at less cost. Soon, DWDM promises to change bandwidth from a premium to a commodity item. DWDM: Networks, Devices, and Technology provides a comprehensive treatment of DWDM, its technology, systems, and networks, as well as engineering design. It explains how DWDM works, how it is used in system design, how optical network architecture can benefit from DWDM, and what the design issues are. Written by an expert in the field, the book covers: Current telecommunication networks and their issues Current telecommunication systems and networks New and emerging photonic technologies in development Optical and photonic physics that describe DWDM components--the building blocks of DWDM--and how they are used New optical systems, devices, and networks that are replacing electronics How optical and photonic devices are used in photonic systems How DWDM systems are engineered and constructed using photonic components The strengths, faults, efficiencies, and issues relevant to DWDM systems and networks New emerging technologies Suitably detailed yet clear and concise, this is a comprehensive reference that makes this new technology wholly accessible to both practicing engineers and students.

For those interested in learning more into the DWDM Network technology this book is a must have. It provides an excellent approach and understanding to the network technology!

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