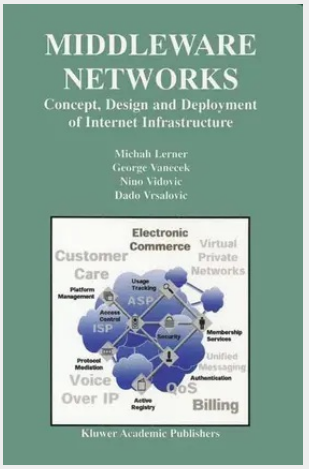
Lerner / Vanecek / Vidovic

# Middleware Networks

Concept, Design and Deployment of Internet Infrastructure

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describes a framework for developing IP Service Platforms and emerging managed IP networks with a reference architecture from the AT&T Labs GeoPlex project. The main goal is to present basic principles that both the telecommunications industry and the Internet community can see as providing benefits for service-related network issues. As this is an emerging technology, the solutions presented are timely and significant. illustrates the principles of middleware networks, including Application Program Interfaces (APIs), reference architecture, and a model implementation. Part I begins with fundamentals of transport, and quickly transitions to modern transport and technology. Part II elucidates essential requirements and unifying design principles for the Internet. These fundamental principles establish the basis for consistent behavior in view of the explosive growth underway in large-scale heterogeneous networks. Part III demonstrates and explains the resulting architecture and implementation. Particular emphasis is placed upon the control of resources and behavior. Reference is made to open APIs and sample deployments.
is intended for a technical audience consisting of students, researchers, network professionals, software developers, system architects and technically-oriented managers involved in the definition and deployment of modern Internet platforms or services. Although the book assumes a basic technical competency, as it does not provide remedial essentials, any practitioner will find this useful, particularly those requiring an overview of the newest software architectures in the field.

Middleware Networks: Concept, Design and Deployment of Internet Infrastructure describes a framework for developing IP Service Platforms and emerging managed IP networks with a reference architecture from the AT&T Labs GeoPlex project. The main goal is to present basic principles that both the telecommunications industry and the Internet community can see as providing benefits for service-related network issues. As this is an emerging technology, the solutions presented are timely and significant. Middleware Networks: Concept, Design and Deployment of Internet Infrastructure illustrates the principles of middleware networks, including Application Program Interfaces (APIs), reference architecture, and a model implementation. Part I begins with fundamentals of transport, and quickly transitions to modern transport and technology. Part II elucidates essential requirements and unifying design principles for the Internet. These fundamental principles establish the basis for consistent behavior in view of the explosive growth underway in large-scale heterogeneous networks. Part III demonstrates and explains the resulting architecture and implementation. Particular emphasis is placed upon the control of resources and behavior. Reference is made to open APIs and sample deployments. Middleware Networks: Concept, Design and Deployment of Internet Infrastructure is intended for a technical audience consisting of students, researchers, network professionals, software developers, system architects and technically-oriented managers involved in the definition and deployment of modern Internet platforms or services. Although the book assumes a basic technical competency, as it does not provide remedial essentials, any practitioner will find this useful, particularly those requiring an overview of the newest software architectures in the field.



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