



Principles of Protocol Design

By Robin Sharp

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This book introduces the reader to the principles used in a broad selection of modern data communication protocols and basic algorithms for use in distributed applications, including not only simple point-to-point data transfer protocols but also multi-party protocols and protocols for ensuring data security. The presentation uses CSP notation to give a concise description of the protocols considered and to provide a basis for analysis of their properties. Relating theory to practice, with a strong focus on currently important Internet protocols, the book clearly explains how the principles are exploited in real-life protocol designs. Principles of Protocol Design is aimed at third-year students and graduates who are studying computer networks/distributed systems or data communications, as well as professional system designers who are looking for the broad view of the area.

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Editorial Review

Review

From the reviews:

"This book takes an unusual path to describe computer network protocols. ... Robin Sharp starts from formal description techniques. More precisely, he chooses the Communicating Sequential Processes (CSP) notation proposed by Hoare. ... could be of interest to readers who are more interested in the application of formal description techniques to network protocols." (IEEE Network, September/October, 2008)

"The book particularly reflects the recent developments in computer networks and distributed systems with special reference to applications. A number of new protocols are introduced with a focus on their current application, what is good stuff for students and researchers in the area. ... The book could be used for undergraduate third and fourth year courses in computer science and the network area. I am sure that this book will be a valuable asset in the educational and scientific community at large." (Aniket Mahanti, Zentralblatt MATH, Vol. 1142, 2008)

From the Back Cover

Primarily based on descriptions of protocols in the notation of CSP, this book introduces the principles used in the construction of a wide range of modern data communication protocols. Details CSP descriptions and proof rules; protocols and services, protocol mechanisms; and naming, addressing, and routing. For data communication engineers, designers, and technicians.

Users Review

From reader reviews:

Antoine Anderson:

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Ronald Cleary:

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