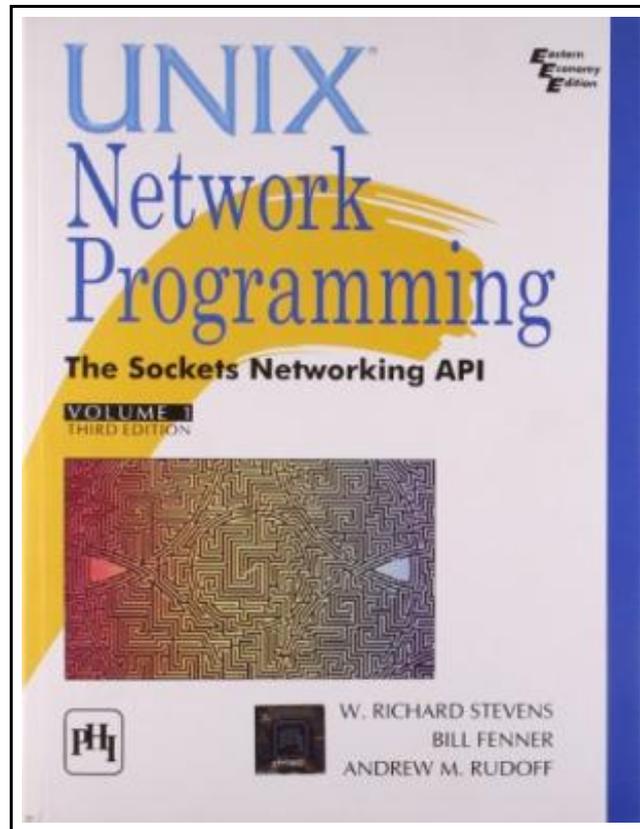


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PHI Learning, 2010. Softcover. Book Condition: New. 3rd edition. This is the updated classic guide to UNIX Networking using Application Program Interface (API). To build today`s highly distributed, networked applications and services, you need deep mastery of sockets and other key networking APIs. This book delivers comprehensive, start-to-finish guidance for building robust, high-performance networked systems in any environment. Building on the legendary work of W. Richard Stevens, this edition has been fully updated by two leading network programming experts to address today`s most crucial standards, implementations, and techniques. New topics include: * POSIX Single UNIX Specification Version 3 * IPv6 APIs (including updated guidance on IPv6/IPv4 interoperability) * The new SCTP transport protocol * IPsec-based Key Management Sockets * FreeBSD? 4.8/5.1, Red Hat? Linux? 9.x, Solaris? 9, AIX? 5.x, HP-UX, and Mac OS? X implementations * New network program debugging techniques * Source Specific Multicast API, the key enabler for widespread IP multicast deployment. The authors also update and extend Stevens` definitive coverage of these crucial UNIX networking standards and techniques: * TCP and UDP transport * Sockets: elementary, advanced, routed, and raw * I/O: multiplexing, advanced functions, nonblocking, and signal-driven * Daemons and inetd * UNIX domain protocols * ioctl operations * Broadcasting and multicasting * Threads * Streams * Design: TCP iterative, concurrent, preforked, and prethreaded servers CONTENTS: Foreword. Preface. Part 1: INTRODUCTION AND TCP/IP- 1. Introduction. 2. The Transport Layer: TCP, UDP, and SCTP. Part 2: ELEMENTARY SOCKETS- 3. Sockets Introduction. 4. Elementary TCP Sockets. 5. TCP Client/Server Example. 6. I/O Multiplexing: The select and poll Functions. 7. Socket Options. 8. Elementary UDP Sockets. 9. Elementary SCTP Sockets. 10. SCTP Client/Server Example. 11. Name and Address Conversions. Part 3: ADVANCED SOCKETS- 12. IPv4 and IPv6 Interoperability. 13. Daemon Processes and the inetd Superserver. 14. Advanced I/O Functions...

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