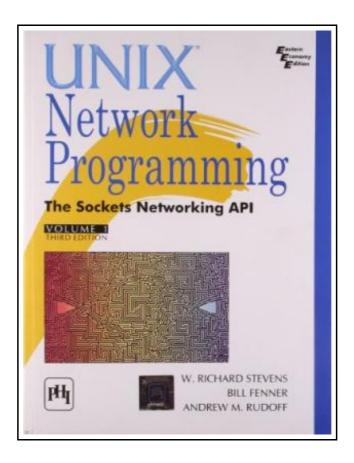
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PHI Learning, 2010. Softcover. Book Condition: New. 3rd edition. This is the updated classic guide to UNIX Networking using Application Program Interface (API). To build today's highly distributed, networked applications and services, you need deep 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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