

<<综合业务数字网>>

图书基本信息

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前言

Much has happened in the evolution of ISDN since this book, and the subsequent editions, were published. Not only have "narrowband" ISDN standards, products, and services evolved and matured, but applications have grown. ISDN is finally beginning to realize its promise. Of even more significance perhaps, is the emergence of Broadband ISDN (B- ISDN) technologies and services. B-ISDN received passing mention in the first edition of this book and at least one dedicated chapter plus prominent mention in other chapters in the second edition; this treatment was pretty much consistent with what details of B-ISDN were known at the time of the writing. In this edition, B-ISDN occupies a significant portion of the book. Another, perhaps related, evolutionary step is that it has become harder to maintain expertise in all facets of ISDN. For that reason, the first author was joined by a second for the third edition. We two have been colleagues for many years, and hope that our complementary approach improves the book's usefulness to its readers. The same issues that motivated me to write the first edition prompted the second and the third. ISDN is an important technology and an important evolution for the telecommunications industry. It is also timely and rapidly moving. This fourth, signature edition adds more up-to-date information about ISDN products and services, and offers a new focus on B-ISDN services, the Internet.

内容概要

Much has happened in the evolution of ISDN since this book, and the subsequent editions, were published. Not only have "narrowband" ISDN standards, products, and services evolved and matured, but applications have grown. ISDN is finally beginning to realize its promise. Of even more significance perhaps, is the emergence of Broadband ISDN (B- ISDN) technologies and services. B-ISDN received passing mention in the first edition of this book and at least one dedicated chapter plus prominent mention in other chapters in the second edition; this treatment was pretty much consistent with what details of B-ISDN were known at the time of the writing. In this edition, B-ISDN occupies a significant portion of the book.

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Picture a single telecommunications network that would break down the walls of classrooms, letting teachers, students, and staff directly access computer-based resources, as well as other communications facilities. This network enhances communications between teachers and staff, allowing students to gain more of their teachers' time for instruction, personal attention, and an enriched curriculum. Computer-aided instruction and computer-based teaching and grading are enhanced, allowing better tailor-made courses and tracking of individual student's progress. Teleconferencing provides courses to the sick or homebound student or provides courses to students spread over a wide geographic area, as well as continuing education for teachers and other staff members. Community- or statewide databases allow the sharing of scarce educational resources. Student attendance and teacher availability are tracked via centralized databases. Personal computer (PC)-to-PC networking is easily accomplished between buildings on a single campus or between secondary school and university campuses.

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