1. Record Nr.   UNISA990000220630203316

   Titolo   Cosmologie et structure a grande echelle : Les Houches session LXx, 1-28 Aout1993 / édité par R. Schaeffer [et al.]

   Pubbl/distr/stampa   Amsterdam [etc.] : Elsevier. 1996

   ISBN   0-444-82335-2

   Descrizione fisica   XXXIX, 968 p. : ill. ; 23 cm

   Collana   Les Houches ; 70

   Disciplina   5231

   Collocazione   530 HOU (70)

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   testo in inglese.

2. Record Nr.   UNINA9911020171203321

   Autore   Courcoubetis Costas

   Titolo   Pricing communication networks : economics, technology, and modelling / / Costas Courcoubetis, Richard Weber

   Pubbl/distr/stampa   West Sussex, England ; ; Hoboken, NJ, : Wiley, c2003

   ISBN   9786610271795
   9781280271793
   1280271795
   9780470299807
   0470299800
   9780470864241
   0470864249
   9780470867174
   0470867175

   Descrizione fisica   1 online resource (379 p.)

   Collana   Wiley-Interscience series in systems and optimization

   Altri autori (Persone)   WeberRichard <1953->

   Disciplina   384/.043

   Soggetti   Information technology - Finance
   Computer networks - Mathematical models
   Digital communications - Mathematical models

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [341]-351) and index.
Nota di contenuto	Pricing Communication Networks; Contents; Preface; List of Acronyms; A Networks; 1 Pricing and Communications Networks; 1.1 The Market for Communications Services; 1.1.1 The Communications Revolution; 1.1.2 Communications Services; 1.1.3 Information Goods; 1.1.4 Special Features of the Communications Market; 1.2 Developments in the Marketplace; 1.3 The Role of Economics; 1.3.1 Overprovision or Control?; 1.3.2 Using Pricing for Control and Signalling; 1.3.3 Who Should Pay the Bill?; 1.3.4 Interconnection and Regulation; 1.4 Preliminary Modelling; 1.4.1 Definitions of Charge, Price and Tariff 1.4.2 Flat Rate versus Usage Charging1.4.3 Dynamic Pricing in an Internet Cafe; 1.4.4 A Model for Pricing a Single Link; 1.5 A Guide to Subsequent Chapters; 1.6 Further Reading; 2 Network Services and Contracts; 2.1 A Classification of Network Services; 2.1.1 Layering; 2.1.2 A Simple Technology Primer; 2.1.3 Value-added Services and Bundling; 2.1.4 Connection-oriented and Connectionless Services; 2.1.5 Guaranteed and Best-effort Services; 2.2 Service Contracts for Transport Services; 2.2.1 The Structure of a Service Contract; 2.2.2 Policing Service Contracts 2.2.3 Static and Dynamic Contract Parameters2.3 Further Reading; 3 Network Technology; 3.1 Network Control; 3.1.1 Entities on which Network Control Acts; 3.1.2 Timescales; 3.1.3 Handling Packets and Cells; 3.1.4 Virtual Circuits and Label Switching; 3.1.5 Call Admission Control; 3.1.6 Routing; 3.1.7 Flow Control; 3.1.8 Network Management; 3.2 Tariffs, Dynamic Prices and Charging Mechanisms; 3.3 Service Technologies; 3.3.1 A Technology Summary; 3.3.2 Optical Networks; 3.3.3 Ethernet; 3.3.4 Synchronous Services; 3.3.5 ATM Services; 3.3.6 Frame Relay; 3.3.7 Internet Services 3.4 Other Types of Services3.4.1 Private and Virtual Networks; 3.4.2 Access Services; 3.5 Charging Requirements; 3.6 A Model of Business Relations for the Internet; 3.7 Further Reading; 4 Network Constraints and Effective Bandwidths; 4.1 The Technology Set; 4.2 Statistical Multiplexing; 4.3 Accepting Calls; 4.4 An Elevator Analogy; 4.5 Effective Bandwidths; 4.6 Effective Bandwidths for Traffic Streams; 4.6.1 The Acceptance Region; 4.7 Some Examples; 4.8 Multiple QoS Constraints; 4.9 Traffic Shaping; 4.10 Effective Bandwidths for Traffic Contracts; 4.11 Bounds for Effective Bandwidths 4.12 Deterministic Multiplexing4.13 Extension to Networks; 4.14 Call Blocking; 4.15 Further Reading; B Economics; 5 Basic Concepts; 5.1 Charging for Services; 5.1.1 Demand, Supply and Market Mechanisms; 5.1.2 Contexts for Deriving Prices; 5.2 The Consumer's Problem; 5.2.1 Maximization of Consumer Surplus; 5.2.2 Elasticity; 5.2.3 Cross Elasticities, Substitutes and Complements; 5.3 The Supplier's Problem; 5.4 Welfare Maximization; 5.4.1 The Case of Producer and Consumers; 5.4.2 The Case of Consumers and Finite Capacity Constraints; 5.4.3 Discussion of Assumptions; 5.4.4 Peak-load Pricing 5.4.5 Walrasian Equilibrium
Sommario/riassunto	Traditionally engineers devised communication services without reference to how they should be priced. In today's environment pricing is a very complex subject and in practice depends on many parameters of the actual market - including amount of traffic, architecture of the network, technology, and cost. The challenge is to provide a generic

service model which accurately captures aspects such as quality and performance, and can be used to derive optimal pricing strategies. Recent technology advances, combined with the deregulation of the telecommunication market and the proliferation o