1. Record Nr. UNINA9910784655403321

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Titolo	Traffic engineering and QoS optimization of integrated voice & data networks [[electronic resource] /] / Gerald R. Ash
Pubbl/distr/stampa	Boston, : Elsevier Morgan Kaufmann, c2006
ISBN	1-280-70766-6 9786610707669 0-08-046605-2
Descrizione fisica	1 online resource (509 p.)
Collana	Morgan Kaufmann series in networking
Disciplina	621.382/1
Soggetti	Telecommunication - Traffic - Management Computer networks - Quality control Internet telephony - Quality control
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 and index.
Nota di contenuto	Front Cover; Title Page; Copyright Page; Table of Contents; Foreword; Preface; Acknowledgments; About the Author; Chapter 1 Traffic Engineering and QoS Optimization Models; 1.1 Introduction; 1.2 Terminology and Definitions; 1.3 TQO Background and Motivation; 1.4 TQO Functional Model; 1.4.1 Traffic/Application Layer; 1.4.2 MPLS LSPs/Layer 3; 1.4.3 Logical Links/GMPLS LSPs/Layer 2; 1.4.4 Physical Fiber Transport/Layer 1; 1.4.5 Operational/Management Layer; 1.5 TQO Design; 1.5.1 TQO Design Problem Statement; 1.5.1.1 Traffic/Application Layer Design 1.5.1.2 MPLS LSP Dynamic Routing and Bandwidth Allocation Layer 3 Design1.5.1.3 GMPLS LSP (Logical Link) Routing and Bandwidth Allocation Layer 2 Design; 1.5.1.4 Physical Fiber Transport/Layer 1 Design; 1.5.1.5 Operational/Management Layer Design; 1.5.2 TQO Design Approach; 1.5.2.1 Design and Operational Experience; 1.5.2.2 Modeling, Analysis, and Case Studies; 1.6 TQO Design and Operational Experience; 1.6.1 Design and Operational Experience in Data Networks; 1.6.1.1 Data Network Routing Layer Design/Operational Experience; 1.6.1.2 Data Network Management Layer Design/Operational Experience

1.6.2 Design and Operational Experience in Voice Networks1.6.2.1 Voice Network Routing Layer Design/Operational Experience; 1.6.2.2 Voice Network Management Layer Design/Operational Experience; 1.6.2.3 Benefits Derived from TQO Design/Operational Experience in Voice Networks; 1.6.3 TQO Design Principles and Benefits Derived from Experience; 1.7 Modeling, Analysis, and Case Studies; 1.7.1 Analysis, Design, and Optimization Methods Used in Modeling Studies; 1.7.1.1 Routing Design and Optimization Methods; 1.7.1.2 Capacity Design and Optimization Methods; 1.7.1.3 QoS and GoS Performance Measures 1.7.2 Key Results from Modeling Studies1.8 Generic TQO (GTQO) Protocol and Benefits; 1.9 Standards Needs to Realize GTQO Protocol Requirements; 1.10 Conclusion and Applicability of Requirements; Chapter 2 Call/Session Routing and Connection Routing Methods; 2.1 Introduction; 2.2 Call/Session Routing Methods; 2.3 Connection (Bearer-Path) Routing Methods; 2.3.1 Hierarchical Fixed Routing Path Selection; 2.3.2 Time-Dependent Routing Path Selection; 2.3.3 State-Dependent Routing Path Selection; 2.3.4 Event-Dependent Routing Path Selection; 2.4 Internetwork Routing; 2.5 Modeling of TQO Methods 2.5.1 Network Design Comparisons2.5.2 Network Performance Comparisons; 2.5.3 Single-Area Flat Topology vs Multiarea Two-Level Hierarchical Network Topology; 2.5.4 Network Modeling Conclusions; 2.6 Summary and Conclusions; 2.7 Applicability of Requirements; Chapter 3 Traffic Engineering and QoS Optimization of MPLS-Based Integrated Voice/Data Dynamic Routing Networks; 3.1 Introduction; 3.2 Class-of-Service Routing; 3.2.1 Class-of-Service Identification; 3.2.2 Routing Table Derivation; 3.2.3 Class-of-Service Routing Steps; 3.3 Dynamic Bandwidth Allocation, Protection, and Reservation Principles 3.3.1 Per-VNET Bandwidth Allocation, Protection, and Reservation

Sommario/riassunto

This book describes, analyzes, and recommends traffic engineering (TE) and quality of service (QoS) optimization methods for integrated voice/data dynamic routing networks. These functions control a network's response to traffic demands and other stimuli, such as link failures or node failures. TE and QoS optimization is concerned with measurement, modeling, characterization, and control of network traffic, and the application of techniques to achieve specific performance objectives. The scope of the analysis and recommendations include dimensioning, call/flow and connection routing, QoS resou

2. Record Nr. UNINA9910786050203321

Autore	Pirounakis Nicholas G. <1955-, >
Titolo	Real estate economics : a point to point handbook / / Nicholas Pirounakis
Pubbl/distr/stampa	London ; ; New York : , : Routledge, , 2013
ISBN	1-136-20844-5 0-203-09464-6 1-283-97292-1 1-136-20845-3
Descrizione fisica	1 online resource (513 p.)
Collana	Routledge advanced texts in economics and finance ; ; 20
Classificazione	BUS000000BUS021000BUS054000
Disciplina	333.33
Soggetti	Real estate business Real estate investment Urban economics Commercial real estate Residential real estate
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 and index.
Nota di contenuto	Real Estate Economics A point-to-point handbook; Copyright; Contents; List of figures; List of tables; List of boxes; Abbreviations; Preface; 1 Real estate (RE): an overview of the sector; Learning outcomes; 1.1 Definition of real estate (RE); 1.2 RE subsectors (or submarkets); 1.3 The location factor; 1.4 Location and 'authentic' versus 'derived' demand for RE; 1.5 Other characteristics of RE - and wider interactions; 1.6 Why study RE economics?; 2 RE: tools of analysis; Learning outcomes; 2.1 Mathematical techniques; 2.1.1 Differentiation; 2.1.2 Partial and total differentiation 2.1.3 Optimization2.1.4 Optimizing functions of more than one variable; 2.1.5 Constrained optimization; 2.1.6 Implicit differentiation; 2.1.7 The S curve; 2.2 Economic concepts; 2.2.1 Elasticity; 2.2.2 Indifference curves; 2.2.3 Useful demand and utility functions; 2.2.4 From Cobb-Douglas utility to Cobb-Douglas demand; 2.2.5 Income and substitution effects; 2.2.6 Income and substitution effects: locating the tangency solutions; 2.2.7 Income and substitution effects in

Sommario/riassunto

"Real estate economics : a point to point handbook introduces the main tools and concepts of real estate (RE) economics. It covers areas such as the relation between RE and the macro-economy, RE finance, investment appraisal, taxation, demand and supply, development, and price estimation. It balances housing economics with commercial property economics, and pays particular attention to the issue of property dynamics and bubbles--something very topical in the aftermath of the US house-price collapse that precipitated the global crisis of 2008.This textbook takes an international approach and introduces the student to the necessary "toolbox" of models required in order to properly understand the mechanics of real estate. It combines theory, technique, real-life cases, and practical examples, so that in the end the student is able to:read and understand the majority of RE papers published in peer-reviewed journals make sense of the RE market (or markets)contribute positively to the preparation of economic analyses of RE assets and markets soon after joining any company or other organization involved in RE investing, appraisal, management, policy, or research. The book should be particularly useful to third-year students of economics who may take up RE or urban economics as an optional course; to postgraduate economics students who want to specialize in RE economics; to graduates of management, business administration, civil engineering, planning, and law, who are interested in RE; and to RE practitioners, and students reading for RE-related professional qualifications"--