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Nota di contenuto	CVOICE 8.0: Implementing Cisco Unified Communications Voice over IP and QoS v8.0; Contents; Introduction; Assessment Test; Chapter 1: An Introduction to Traditional Telephony and Cisco Unified Communications; Understanding Traditional Telephony Components; Telephony Edge Devices; Phone Switches; The Central Office; The Local Loop; Trunks; National and International Calling PSTN; Understanding Private Telephony Phone Systems; Key System; PBX; Understanding the Unified Communications Model; Endpoints; Applications; Call Processing Agents; Network Infrastructure Unified Communications Deployment Models The Centralized Services Deployment Model; The Distributed Services Deployment Model; The Inter-Networking of Services Deployment Model; The Geographical Diversity Deployment Model; Summary; Exam Essentials; Written Lab 1.1; Review Questions; Answers to Review Questions; Answers to Written Lab 1.1; Chapter 2: Understanding Analog and Digital Voice; Understanding Analog Voice Ports and Signaling; Analog Voice Port Types; Analog Voice Signaling; Basic Configuration of Analog Voice

Ports; Understanding Digital Voice Ports and Signaling
An Overview of the Analog-to-Digital Conversion Process Digital Voice Port Types; Digital Voice Multiplexing, Framing, and Physical Transport; Digital Voice Signaling; Basic Configuration of Digital Voice Ports; Summary; Exam Essentials; Written Lab 2.1; Review Questions; Answers to Review Questions; Answers to Written Lab 2.1; Chapter 3: VoIP Operation and Protocols; Voice Media Transmission Protocols; Introduction to the Real-Time Transport Protocol; Introduction to the Real-time Transport Control Protocol; Introduction to Compressed RTP; Introduction to Secure RTP
Voice Gateway Signaling ProtocolsH. 323; Session Initiation Protocol; Media Gateway Control Protocol; Skinny Client Control Protocol; Voice Gateway Signaling Protocol Comparison; An Introduction to Gatekeepers and Other H. 323 Components; Gatekeeper; H. 323 Proxy Server; H. 323 Multipoint Control Unit; A Typical H. 323 Network; Choosing the Appropriate Voice Gateway Signaling Protocol; Summary; Exam Essentials; Written Lab 3.1; Review Questions; Answers to Review Questions; Answers to Written Lab 3.1; Chapter 4: The VoIP Path-Selection Process
Understanding the Dial Plan Path-Selection Process Understanding Voice Call Types; Path Selection and Call Routing; POTS and VoIP Dial Peers; Call Legs; Path-Selection Strategies; Introduction to PSTN and Private Numbering Plans; Using Wildcards to Simplify Dial-Peer Configurations; Site-Code Dialing; Dial-Plan Digit Manipulation; Digit Stripping; Forwarding the Last X Digits; Prefix Adding; Number Substitution; Translation Rules and Profiles; Verifying Dial-Plan Configurations; Summary; Exam Essentials; Written Lab 4.1; Review Questions; Answers to Review Questions; Answers to Written Lab 4.1 Chapter 5: VoIP Design Options

Sommario/riassunto

VoIP and convergence are hot topics, and the CVOICE 8.0 exam targets candidates looking to pass Exam 642-437 and pursue their CCNP Voice certification. Companies continue to add VoIP service at a record pace, and network administrators are ramping up their skills. This new member of the Sybex Study Guide series covers everything you'll need to know to pass the certification exam.VoIP (Voice over IP) is rapidly becoming a preferred solution for companies, and Cisco has responded to the need with a new certification to assure proficiency in VoIP technologyPrepares IT pr

2. Record Nr. UNINA9910633914703321

Titolo	The mathematics of marine modelling : water, solute and particle dynamics in estuaries and shallow seas / / Henk Schuttelaars, Arnold Heemink, Eric Deleersnijder, editors
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Collana	Mathematics of Planet Earth ; ; v.9
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Contents -- Contributors -- 1 Basic Equations of Marine Flows -- 1.1 Mathematical Description of Fluids -- 1.1.1 Fluids as Continuous Media -- 1.1.2 Integral and Differential Formulations -- 1.1.3 Averaging of Turbulent Flows -- 1.2 Governing Equations -- 1.2.1 Volume Conservation -- 1.2.2 Salt Conservation -- 1.2.3 Heat Balance -- 1.2.4 Momentum Balance -- 1.2.5 Common Formulations and Closures -- 1.3 Summary -- References -- 2 Water Waves in Isotropic and Anisotropic Media: A comparison -- 2.1 Introduction -- 2.2 Gravity Waves -- 2.2.1 Surface Gravity Waves in Homogeneous Fluids -- 2.2.2 Gravity Waves in Heterogeneous Media -- 2.3 Inertial Waves -- 2.3.1 Waves in Shear Flows -- 2.3.2 Waves in Rotating Basins -- 2.3.3 Three-dimensional Effects -- 2.4 Discussion -- 2.4.1 The Linear Shear Flow as `Problematic' Equilibrium -- 2.4.2 Waves in Anisotropic Media -- 2.4.3 Mixing Due to Wave Focusing and Mean

Flows -- 2.5 Conclusion -- References -- 3 A Review of Nonlinear Boussinesq-Type Models for Coastal Ocean Modeling -- 3.1 Introduction -- 3.2 The Water Wave Problem -- 3.2.1 Dispersive Properties of the Linear Waves -- 3.2.2 Scaling of Variables and Operators -- 3.2.3 Nondimensionalization of Equations -- 3.2.4 Green-Naghdi Equation -- 3.3 A Finite Element Discretization of the Green-Naghdi Equation -- 3.3.1 Notation -- 3.3.2 Functional Setting -- 3.3.3 Variational Formulation and Solution Procedure -- 3.4 Numerical Results -- 3.5 Conclusions -- References -- 4 Tides in Coastal Seas. Influence of Topography and Bottom Friction -- 4.1 Introduction -- 4.2 Model Formulation -- 4.3 Fundamental Wave Solutions -- 4.3.1 Derivation with Klein-Gordon Equation -- 4.3.2 Kelvin Wave -- 4.3.3 Poincaré Waves -- 4.3.4 Wave Solutions with a Transverse Topographic Step -- 4.4 Amphidromic Patterns in Semi-enclosed Basins.
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