1. Record Nr.	UNINA9910974889203321
Autore	Keilser Jan Just
Titolo	OpenVPN 2 Cookbook : 100 simple and incredibly effective recipes for harnessing the power of the OpenVPN 2 network / / Jan Just Keilser
Pubbl/distr/stampa	Birmingham, : Packt Publishing, c2011
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Descrizione fisica	1 online resource (356 pages)
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Soggetti	Extranets (Computer networks) Operating systems (Computers)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Point-to-Point Networks; Introduction; Shortest setup possible; OpenVPN secret keys; Multiple secret keys; Plaintext tunnel; Routing; Configuration files versus the command-line; Complete site-to-site setup; 3-way routing; Chapter 2: Client-server IP-only Networks; Introduction; Setting up the public and private keys; Simple configuration; Server-side routing; Using client-config-dir files; Routing: subnets on both sides; Redirecting the default gateway Using an 'ifconfig-pool' blockUsing the status file; Management interface; Proxy-arp; Chapter 3: Client-server Ethernet-style Networks; Introduction; Simple configuration-non-bridged; Enabling client-to-client traffic; Bridging-Linux; Bridging-Windows; Checking broadcast and non-IP traffic; External DHCP server; Using the status file; Management interface; Chapter 4: PKI, Certificates, and OpenSSL; Introduction; Certificate generation; xCA: a GUI for managing a PKI (Part 1); xCA: a GUI for managing a PKI (Part 2); OpenSSL tricks: x509,

pkcs12, verify output; Revoking certificates

The use of CRLsChecking expired/revoked certificates; Intermediary CAs; Multiple CAs: stacking, using --capath; Chapter 5: Two-factor Authentication with PKCS#11; Introduction; Initializing a hardware token; Getting a hardware token ID; Using a hardware token; Using the management interface to list PKCS#11 certificates; Selecting a PKCS#11 certificate using the management interface; Generating a key on the hardware token; Private method for getting a PKCS#11 certificate; Pin caching example; Chapter 6: Scripting and Plugins; Introduction; Using a client-side up/down script

Windows login greeterUsing client-connect/client-disconnect scripts; Using a 'learn-address' script; Using a 'tls-verify' script; Using an 'auth-user-pass-verify' script; Script order; Script security and logging; Using the 'down-root' plugin; Using the PAM authentication plugin; Chapter 7: Troubleshooting OpenVPN: Configurations; Introduction; Cipher mismatches; TUN versus TAP mismatches; Compression mismatches; Key mismatches; Troubleshooting MTU and tun-mtu issues; Troubleshooting network connectivity; Troubleshooting client-config-dir issues; How to read the OpenVPN log files

Chapter 8: Troubleshooting OpenVPN: RoutingIntroduction; The missing return route; Missing return routes when 'iroute' is used; All clients function except the OpenVPN endpoints; Source routing; Routing and permissions on Windows; Troubleshooting client-to-client traffic routing; Understanding the 'MULTI: bad source' warnings; Failure when redirecting the default gateway; Chapter 9: Performance Tuning; Introduction; Optimizing performance using 'ping'; Optimizing performance using iperf; OpenSSL cipher speed; Compression tests; Traffic shaping; Tuning UDP-based connections

Tuning TCP-based connections

Sommario/riassunto	100 simple and incredibly effective recipes for harnessing the power of the OpenVPN 2 network

2. Record Nr. UNINA9910758501003321

Autore	Kurasov P
Titolo	Spectral Geometry of Graphs / / by Pavel Kurasov
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Collana	Operator Theory: Advances and Applications, , 2296-4878 ; ; 293
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Soggetti	Quantum computers Mathematical analysis System theory Control theory Mathematical optimization Calculus of variations Quantum Computing Analysis Systems Theory, Control Calculus of Variations and Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Notations -- Conventions -- Contents -- 1 Very Personal Introduction -- 2 How to Define Differential Operators on Metric Graphs -- 2.1 Schrödinger Operators on Metric Graphs -- 2.1.1 Metric Graphs -- 2.1.2 Differential Operators -- 2.1.3 Standard Vertex Conditions -- 2.1.4 Definition of the Operator -- 2.2 Elementary Examples -- 3 Vertex Conditions -- 3.1 Preliminary Discussion -- 3.2 Vertex Conditions for the Star Graph -- 3.3 Vertex Conditions Via the Vertex Scattering Matrix -- 3.3.1 The Vertex Scattering Matrix -- 3.3.2 Scattering Matrix as a Parameterin the Vertex Conditions -- 3.3.3 On Properly Connecting Vertex Conditions -- 3.4 Parametrisation Via Hermitian Matrices -- 3.5 Scaling-Invariant and Standard Conditions --

Inverse Problem for the One-DimensionalSchrödinger Equation -- 19.5 BC-Method for the Standard Laplacian on the Star Graph -- 19.6 BC-Method for the Star Graph with General Vertex Conditions -- 20 Inverse Problems for Trees -- 20.1 Obvious Ambiguities and Limitations -- 20.2 Subproblem I: Reconstruction of the Metric Tree -- 20.2.1 Global Reconstruction of the Metric Tree -- 20.2.2 Local Reconstruction of the Metric Tree -- 20.3 Subproblem II: Reconstruction of the Potential -- 20.4 Subproblem III: Reconstruction of the Vertex Conditions -- 20.4.1 Trimming a Bunch -- 20.4.2 Recovering the Vertex Conditions for an Equilateral Bunch -- 20.5 Cleaning and Pruning Using the M-functions -- 20.5.1 Cleaning the Edges -- 20.5.2 Pruning Branches and Bunches -- 20.6 Complete Solution of the Inverse Problem for Trees -- Appendix 1: Calculation of the M-function for the Cross Graph -- Appendix 2: Calderón Problem.
21 Boundary Control for Graphs with Cycles: Dismantling Graphs.

Sommario/riassunto

This open access book gives a systematic introduction into the spectral theory of differential operators on metric graphs. Main focus is on the fundamental relations between the spectrum and the geometry of the underlying graph. The book has two central themes: the trace formula and inverse problems. The trace formula is relating the spectrum to the set of periodic orbits and is comparable to the celebrated Selberg and Chazarain-Duistermaat-Guillemin-Melrose trace formulas. Unexpectedly this formula allows one to construct non-trivial crystalline measures and Fourier quasicrystals solving one of the long-standing problems in Fourier analysis. The remarkable story of this mathematical odyssey is presented in the first part of the book. To solve the inverse problem for Schrödinger operators on metric graphs the magnetic boundary control method is introduced. Spectral data depending on the magnetic flux allow one to solve the inverse problem in full generality, this means to reconstruct not only the potential on a given graph, but also the underlying graph itself and the vertex conditions. The book provides an excellent example of recent studies where the interplay between different fields like operator theory, algebraic geometry and number theory, leads to unexpected and sound mathematical results. The book is thought as a graduate course book where every chapter is suitable for a separate lecture and includes problems for home studies. Numerous illuminating examples make it easier to understand new concepts and develop the necessary intuition for further studies.