

1. Record Nr.	UNINA9910810163603321
Autore	Sethi Adarshpal S.
Titolo	The practical OPNET user guide for computer network simulation // Adarshpal S. Sethi, Vasil Y. Hnatyshin
Pubbl/distr/stampa	Boca Raton, FL, : CRC Press, c2013 Boca Raton, Fla. : , : CRC Press, , 2013
ISBN	9781040063071 1040063071 9780429131554 0429131550 9781439812068 1439812063
Edizione	[1st ed.]
Descrizione fisica	1 online resource (507 p.)
Classificazione	COM059000MAT000000TEC061000
Altri autori (Persone)	HnatyshinVasil Y
Disciplina	004.601/1 004.6011 004.60113
Soggetti	Computer networks - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Contents; Preface; Authors; OPNET Trademark Information; Chapter 1 - Getting Started with OPNET; Chapter 2 - Creating Network Topology; Chapter 3 - Configuring Network Topology; Chapter 4 - Configuring and Running a Simulation; Chapter 5 - Standard Applications; Chapter 6 - Advanced Traffic Generation Features; Chapter 7 - Specifying User Profiles and Deploying Applications; Chapter 8 - Transport Layer: TCP and UDP Protocols; Chapter 9 - Network Layer: Introduction to the IP Protocol; Chapter 10 - Advanced IP Protocol Features; Chapter 11 - Network Layer: Routing Chapter 12 - Data Link and Physical LayersLaboratory Assignment #1: Introduction to OPNET; Laboratory Assignment #2: Simple Capacity Planning; Laboratory Assignment #3: Introduction to Standard Applications; Laboratory Assignment #4: HTTP Performance; Laboratory Assignment #5: Modeling Custom Applications; Laboratory Assignment #6: Influence of the Maximum Transmission Unit on Application

Performance; Laboratory Assignment #7: Transport Protocols: TCP versus UDP; Laboratory Assignment #8: TCP Features; Laboratory Assignment #9: IP Addressing and Network Address Translation  
Laboratory Assignment #10: Providing Quality of Service Support  
Laboratory Assignment #11: Routing with RIP; Laboratory Assignment #12: Routing with OSPF; Laboratory Assignment #13: Ethernet; Laboratory Assignment #14: Wireless Communication; Back Cover

---

Sommario/riassunto

This book provides a practical, hands-on reference for the most widely used computer network simulation software: OPNET. It explains how to use OPNET software packages for simulation and modeling of computer networks. The authors also provide a collection of laboratory projects, focusing on the most common simulation and modeling tasks performed by computer networking systems professionals and students who use OPNET software. The introductory labs demonstrate how to set up simulations, run them, and analyze results. More advanced labs address the simulation of networking protocols in various protocol layers and for wireless and mobile networks--

---