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Titolo	A study of black hole attack solutions : on AODV routing protocol in MANET / / Elahe Fazeldehkordi, Iraj Sadegh Amiri, Oluwatobi Ayodeji Akanbi, University of Malaya, Kuala Lumpur, Malaysia ; Matthew Neely, technical editor
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Nota di contenuto	Front Cover; A Study of Black Hole Attack Solutions; Copyright Page; Contents; List of Tables; List of Figures; Preface; 1 Introduction; 1.1 Introduction; 1.2 Problem Background; 1.3 Problem Statement; 1.4 Intent of Study; 1.5 Aims; 1.6 Scope; 1.7 The Significance of the Book; 1.8 Organization of the Book; 2 Literature Review; 2.1 Introduction; 2.2 Network; 2.3 Wired Networks; 2.4 Why Wireless Networks?; 2.5 Wireless Networks; 2.5.1 IEEE Standard for Wireless Networks; 2.5.2 Categorization of Wireless Networks; 2.5.2.1 Infrastructure Networks; 2.5.2.2 Infrastructure-Less Networks 2.5.3 Benefits of Wireless Networks2.5.4 Weaknesses of Wireless Networks; 2.6 Ad Hoc Networks; 2.6.1 Static Ad Hoc Networks; 2.6.2 Mobile Ad Hoc Networks (MANETs); 2.6.2.1 Categorization of MANETs; 2.6.2.1.1 Vehicular Ad hoc Networks (VANETs); 2.6.2.1.2 Intelligent Vehicular Ad hoc Networks (InVANETs); 2.6.2.1.3 Internet-Based MANETs (IMANETs); 2.6.2.2 Features of MANET; 2.6.2.3 Utilization of MANET; 2.6.2.4 Benefits of MANET; 2.6.2.5 Weaknesses of MANET; 2.7 Routing; 2.8 Ad Hoc Network Routing Protocols; 2.9 MANETs Routing

Protocols; 2.9.1 Categorization of Routing Protocols
2.9.1.1 Table-Driven (Proactive) Routing2.9.1.2 Reactive (On-Demand) Routing; 2.9.1.3 Hybrid Routing; 2.10 Optimized Link State Routing Protocol (OLSR); 2.10.1 OLSR Working; 2.10.1.1 Multipoint Relaying (MPR); 2.11 Ad Hoc on Demand Distance Vector Routing Protocol (AODV); 2.11.1 Routing in AODV; 2.11.1.1 Route Discovery Mechanism in AODV; 2.11.1.2 Route Maintenance Mechanism in AODV; 2.11.2 Features of AODV; 2.11.3 Benefits and Weaknesses of AODV; 2.12 Dynamic Source Routing Protocol (DSR); 2.12.1 Route Discovery Process; 2.12.2 Route Maintenance Process; 2.13 Security Challenges in MANETs
2.13.1 Categorizations of MANET Attacks2.13.2 Black Hole Attack in MANETs; 2.13.3 Black Hole Attack in AODV; 2.13.4 Black Hole Attack in OLSR; 2.13.5 Other Attacks in MANETs; 2.13.5.1 Gray Hole Attack; 2.13.5.2 Flooding Attack; 2.13.5.3 Selfish Node; 2.13.5.4 Wormhole Attack; 2.13.5.5 Sleep Deprivation Torture Attack; 2.13.5.6 Jellyfish Attack; 2.13.5.7 Modification Attack; 2.13.5.8 Misrouting Attack; 2.13.5.9 Impersonation Attack; 2.13.5.10 Routing Table Overflow Attack; 2.14 Related Studies; 2.15 Investigated Solutions; 2.16 Intrusion Detection System (IDSAODV); 2.17 Evaluation Metrics
2.18 Summary3 Research Methodology; 3.1 Introduction; 3.2 Research Structure; 3.2.1 Phase 1: Investigating the Existing Solutions; 3.2.2 Phase 2; 3.2.2.1 Phase 2a: Clarifying Efficient Solution; 3.2.2.2 Phase 2b: Executing the Existed Solution; 3.2.2.2.1 Simulation: The Customary Definition; 3.2.2.2.2 Network Simulator (NS); 3.2.2.2.3 Tool Command Language (Tcl) in NS; 3.2.3 Phase 3: Comparing the Effects of Recommended Solution on MANET Performance; 3.3 Summary; 4 Investigation and Selection Procedure; 4.1 Introduction
4.2 Executing a New Routing Protocol in NS to Simulate Black Hole Behavior

Sommario/riassunto

Mobile Ad Hoc Networks (MANETs) are a popular form of network for data transfer due to the fact that they are dynamic, require no fixed infrastructure, and are scalable. However, MANETs are particularly susceptible to several different types of widely perpetrated cyberattack. One of the most common hacks aimed at MANETs is the Black Hole attack, in which a particular node within the network displays itself as having the shortest path for the node whose packets it wants to intercept. Once the packets are drawn to the Black Hole, they are then dropped instead of relayed, and the communication of the MANET is thereby disrupted, without knowledge of the other nodes in the network. Due to the sophistication of the Black Hole attack, there has been a lot of research conducted on how to detect it and prevent it. The authors of this short format title provide their research results on providing an effective solution to Black Hole attacks, including introduction of new MANET routing protocols that can be implemented in order to improve detection accuracy and network parameters such as total dropped packets, end-to-end delay, packet delivery ratio, and routing request overhead. Elaborates on the basics of wireless networks, MANETs Explains the significance behind the need of wireless networks and MANET security Understand MANET routing protocols, namely the ADOV method

2.

Record Nr.	UNINA9910789319003321
Autore	MacKendrick Karmen <1962->
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ISBN	0-8232-3696-X 0-8232-4786-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (209 p.)
Disciplina	230/.2
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The one and the many -- The sin of origin -- From trauma to revelation : forgiveness -- Poppies and rosemary : love -- Dismembered divinity : saints' relics -- Eternal flesh : the resurrection of the body.
Sommario/riassunto	With questions from the 1885 Baltimore Catechism of the Catholic Church as the starting point for each chapter, the author offers postmodern reflections on many of the central doctrines of the Church, including the oneness of God, original sin, love and its connection to mortality, and the doctrine of bodily resurrection.

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Titolo	Measure, Integration & Real Analysis / / by Sheldon Axler
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Descrizione fisica	1 online resource (411)
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Disciplina	515.42 515
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Nota di contenuto	About the Author -- Preface for Students -- Preface for Instructors -- Acknowledgments -- 1. Riemann Integration -- 2. Measures -- 3. Integration -- 4. Differentiation -- 5. Product Measures -- 6. Banach Spaces -- 7. L^p Spaces -- 8. Hilbert Spaces -- 9. Real and Complex Measures -- 10. Linear Maps on Hilbert Spaces -- 11. Fourier Analysis -- 12. Probability Measures -- Photo Credits -- Bibliography -- Notation Index -- Index -- Colophon: Notes on Typesetting.
Sommario/riassunto	This open access textbook welcomes students into the fundamental theory of measure, integration, and real analysis. Focusing on an accessible approach, Axler lays the foundations for further study by promoting a deep understanding of key results. Content is carefully curated to suit a single course, or two-semester sequence of courses, creating a versatile entry point for graduate studies in all areas of pure and applied mathematics. Motivated by a brief review of Riemann integration and its deficiencies, the text begins by immersing students in the concepts of measure and integration. Lebesgue measure and abstract measures are developed together, with each providing key insight into the main ideas of the other approach. Lebesgue integration links into results such as the Lebesgue Differentiation Theorem. The development of products of abstract measures leads to Lebesgue measure on Rn. Chapters on Banach spaces, Lp spaces, and Hilbert spaces showcase major results such as the Hahn–Banach Theorem,

Hölder’s Inequality, and the Riesz Representation Theorem. An in-depth study of linear maps on Hilbert spaces culminates in the Spectral Theorem and Singular Value Decomposition for compact operators, with an optional interlude in real and complex measures. Building on the Hilbert space material, a chapter on Fourier analysis provides an invaluable introduction to Fourier series and the Fourier transform. The final chapter offers a taste of probability. Extensively class tested at multiple universities and written by an award-winning mathematical expositor, Measure, Integration & Real Analysis is an ideal resource for students at the start of their journey into graduate mathematics. A prerequisite of elementary undergraduate real analysis is assumed; students and instructors looking to reinforce these ideas will appreciate the electronic Supplement for Measure, Integration & Real Analysis that isfreely available online.