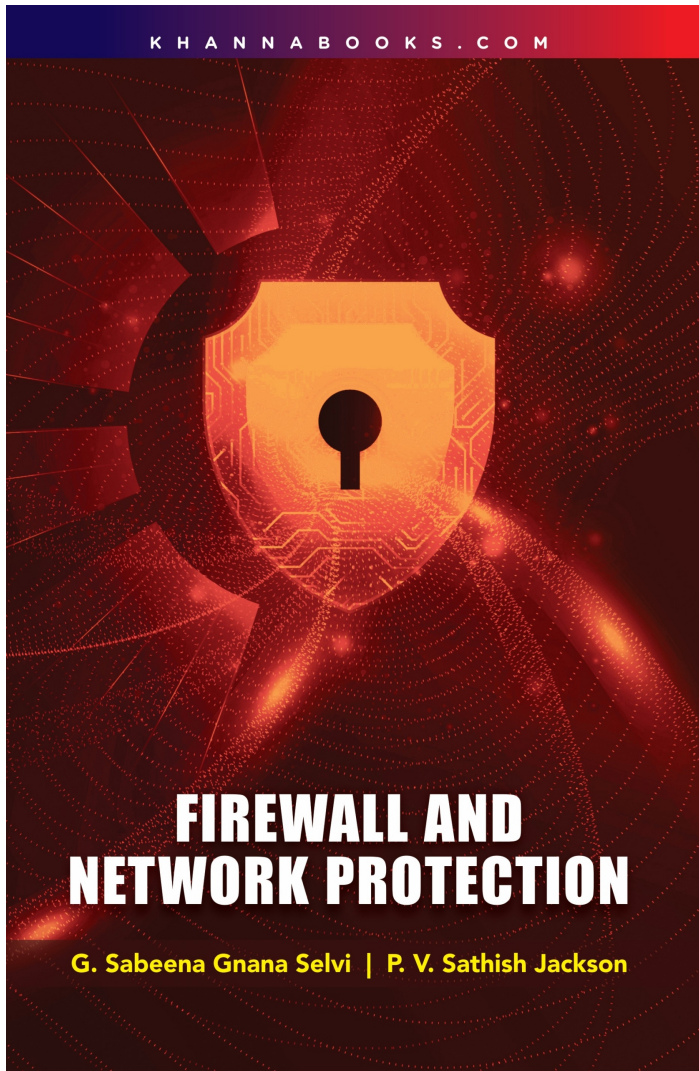




Firewall And Network Protection

Author :	G. Sabeena Gnana Selvi
ISBN 13 :	978-93-55382-86-3
ISBN 10 :	93-55382-86-3
E-ISBN 13 :	978-93-55382-86-3
Edition :	First
Pages :	104
Type of book :	Paperback
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 260.00
Categories :	Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

Firewall And Network Protection This book offers a comprehensive exploration of modern network security, establishing a robust foundation for protecting digital assets in today's threat landscape. It begins by grounding readers in the essential security principles—Confidentiality, Integrity, and Availability (CIA Triad)—and outlines the current spectrum of complex threats, including ransomware and zero-day attacks, preparing readers to understand the adversary. The content moves seamlessly from foundational theory to practical implementation. It dedicates significant coverage to the mathematics of cryptography, analyzing both symmetric ciphers like AES and asymmetric systems like RSA and Diffie-Hellman, alongside practical case studies in cryptographic solutions. Crucially, the text provides an in-depth look at implementing layered defense controls, including Intrusion Detection Systems (IDS) and the core role of Firewalls as network access controls. It details various firewall types (Packet Filtering, Stateful Inspection, and Proxy) and best practices for rule management and network segmentation. Furthermore, the book addresses securing emerging technologies such as Cloud, IoT, and Web Applications. This resource is an invaluable guide for students in Computer Science and Cybersecurity, as well as IT and security professionals who need to design, implement, and maintain resilient security architectures in an evolving digital world. **Salient Features**

- **Foundational Security Principles:** Clearly covers the core security model, the CIA Triad (Confidentiality, Integrity, Availability), and expands on essential concepts like Accountability and Non-repudiation.
- **Symmetric/Asymmetric Crypto:** Provides detailed instruction on modern cryptographic algorithms, contrasting the performance of AES with the security offered by RSA for practical data protection.
- **Firewall Deep Dive:** Explores the characteristics and necessity of effective firewalls, detailing different types—Packet Filtering, Stateful Inspection, and Proxy—for robust perimeter defense.
- **Practical Network Defense:** Focuses on implementing layered security controls, covering the deployment and management of Intrusion Detection Systems (NIDS/HIDS) and VPNs for secure remote access.
- **Malware and Attack Taxonomy:** Categorizes and explains major network threats like DDoS, Phishing, IP Spoofing, and sophisticated malware (Ransomware), providing context for effective defense strategies.
- **Emerging Tech Security:** Addresses the unique security challenges in contemporary environments, dedicating chapters to securing Cloud



Table of Contents

UNIT 1: Foundation of Network Security **UNIT 2:** Cryptography and Secure Communication **UNIT 3:** Securing the Internet and Emerging Technologies **UNIT 4:** Combating Malicious Software and Attacks **UNIT 5:** Intrusion Detection and Firewalls

Author

G. Sabeena Gnana Selvi Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology **P. V. Sathish Jackson** Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

K H A N N A B O O K S . C O M

CLOUD COMPUTING

R. Yogitha
R. Aishwarya
G. M. Karpura Dheepan



Cloud Computing

Author :	G. M. Karpura Dheepan
ISBN 13 :	978-93-55385-46-8
ISBN 10 :	93-55385-46-3
E-ISBN 13 :	978-93-55385-46-8
Edition :	First
Pages :	104
Type of book :	Paperback
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 260.00
Categories :	Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

Cloud Computing This comprehensive textbook provides a structured and authoritative introduction to Cloud Computing, guiding readers from foundational principles to advanced real-world applications. It serves as an essential resource for students, IT professionals, and researchers seeking to master the technologies that power modern digital infrastructure. The book clearly outlines the origins and essential characteristics of cloud environments, such as Rapid Elasticity, Broad Network Access, and Measured Service, setting the stage for deep dives into implementation. It thoroughly examines the cloud infrastructure, covering foundational technologies like data center components, power efficiency metrics (PUE), and the multi-level implementation of virtualization across CPU, Memory, and I/O. A significant portion is dedicated to cloud architecture, detailing the fundamental service models (SaaS, PaaS, IaaS) and various deployment models (Public, Private, Hybrid). Finally, a major focus is placed on cloud security, detailing the CIA Triad, Zero Trust principles, and modern DevSecOps practices crucial for designing and deploying secure cloud software. By covering these core concepts and modern storage systems (Object, NoSQL Databases), this book delivers both the academic knowledge and the practical value needed to confidently design, manage, and secure scalable cloud solutions. **Salient Features:**

- **Core Cloud Characteristics:** The book meticulously details the defining aspects of cloud computing, such as Rapid Elasticity, Measured Service, and On-demand Self-service, contrasting them with traditional IT models for a clear understanding of cloud value.
- **Advanced Infrastructure:** Features an in-depth exploration of data center design, including crucial topics like calculating Power Usage Effectiveness (PUE) and implementing robust power redundancy configurations (N+1, 2N) for high reliability.
- **Multi-Level Virtualization:** Explains the foundational role of virtualization by detailing the implementation levels across CPU, Memory, and I/O, including hypervisor types and the mechanics of creating virtual machines.
- **Cloud Security Focus:** Provides dedicated coverage of Cloud Computing Software Security, focusing on the CIA Triad (Confidentiality, Integrity, Availability), Zero Trust principles, and legal compliance requirements.
- **Secure Development Practices:** Highlights the adoption of modern security methods like DevSecOps and Secure Development Practices to integrate security into the CI/CD pipeline and mitigate risks.

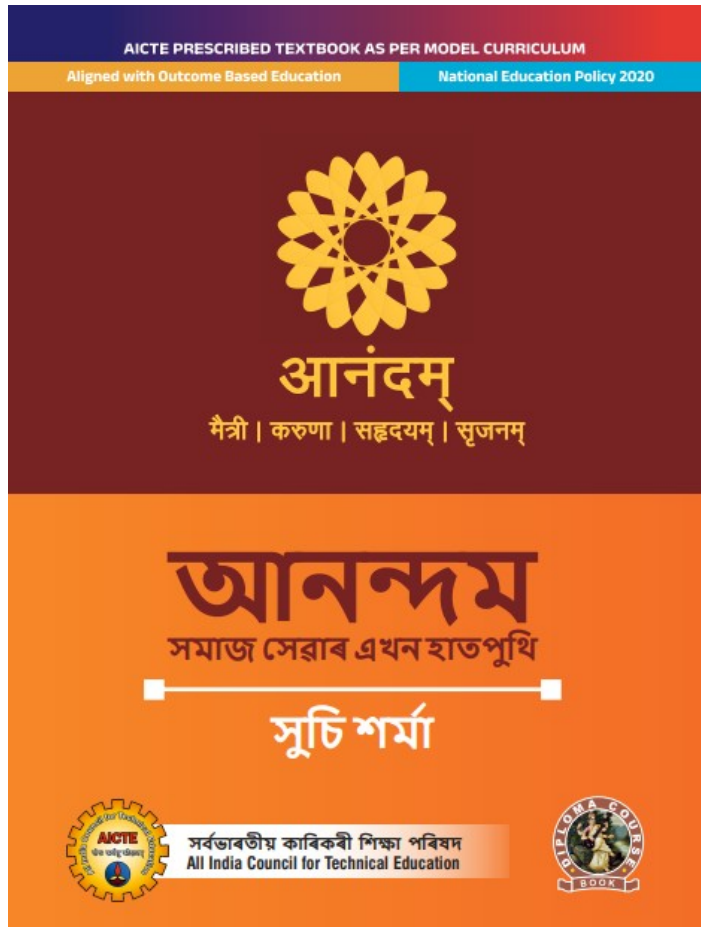


Table of Contents

- Cloud Introduction
- Cloud Infrastructure
- Cloud Architecture
- Cloud Computing Software Security
- Cloud Storage

Author

R. Yogitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology **R. Aishwarya**
Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology **G. M. Karpura Dheepan**
Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology



Aanandam An Act of Community Service

Author :	Shuchi Sharma
ISBN 13 :	978-93-55388-33-9
ISBN 10 :	93-55388-33-0
E-ISBN 13 :	978-93-55388-33-9
Edition :	First
Pages :	104
Type of book :	Paperback
Year :	2026
Language :	Assamese
Publisher :	Khanna Publishing House
M.R.P :	Rs 198.00
Categories :	Assamese Books
Condition Type :	New
Country Origin :	India

Product Description

Aanandam An Act of Community Service Salient Feature:

- It is a guide book for the students and the mentors of the course.
- The book discusses about how the education is incomplete without evolving the goodness hidden inside an individual.
- It guides the students about how to interact with the community and understand the problems of the people.
- It explains about how to select a community problem and make it a subject for the group project.
- How to write the project report, has been explained well with examples.
- The importance of volunteerism, environmental sustainability and community service has been discussed at length.
- The students are most important part of society. It is expected from the education system that it produces socially responsible and empathetic young leaders. To fulfill this objective a novel idea of Aanandam diary has been introduced. It gives an opportunity to peep into the inner world and let love and kindness flow.
- This book will certainly help in understanding the course and implementing it in true spirit to bring forth empathetic, creative and happy young leaders.



Table of Contents

Foreword Acknowledgement Preface Syllabus Course Outcomes

- Why Aanandam?
- Ancient Indian Education System and Aanandam
- Volunteer Benevolence
- Volunteering Immersions for Students at MAHE Manipal
- Aanandam and Environmental Sustainability
- Aanandam Diary
- Aanandam and Community Service
- Aanandam Day – How to make learning a celebration
- How to do a group project work
- Aanandam: A Roadmap for the future

Conclusion Appendix Implementation of Aanandam in Higher & Technical Education in Rajasthan References

Author

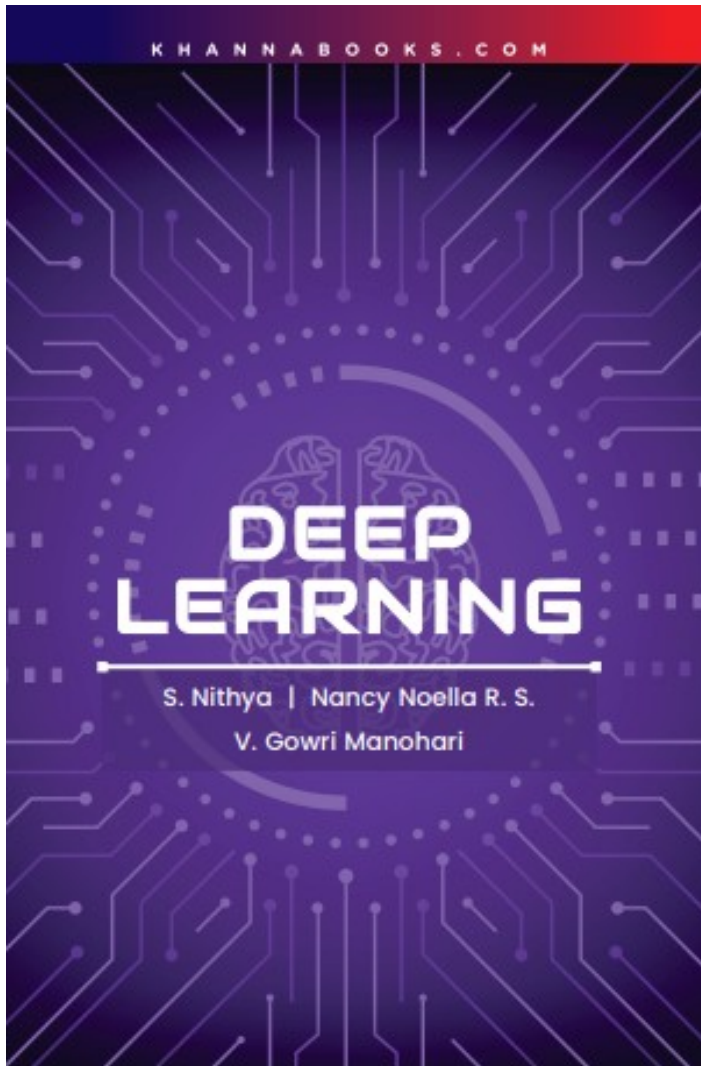
Dr. Shuchi Sharma, IAS (retd) Former Secretary Higher, Technical & Sanskrit Education, Government of Rajasthan



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320



Deep Learning

Author :	Nancy Noella R. S.
ISBN 13 :	978-93-55388-19-3
ISBN 10 :	93-55388-19-5
E-ISBN 13 :	978-93-55388-19-3
Edition :	First
Pages :	104
Type of book :	Paperback
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

Deep Learning This textbook, *Deep Learning*, serves as a comprehensive and structured introduction to the transformative field of Artificial Intelligence, focusing specifically on modern Deep Learning (DL) methodologies. It is explicitly designed to meet the academic needs of students enrolled in computer science programs, covering the Sathyabama University Syllabus, while simultaneously acting as an invaluable resource for researchers and practitioners seeking to deepen their technical knowledge. The book's core theme revolves around mastering the application of Artificial Neural Networks (ANNs) to extract complex patterns from massive datasets. Its primary objective is to effectively bridge the crucial gap between fundamental theoretical concepts and their practical utility in real-world scenarios. The content guides the reader progressively, starting from foundational Machine Learning concepts—including linear models like SVM and Perceptrons—to the intricate architectures of modern deep networks. Key topics covered include the inner mechanics of neural networks, advanced training processes like backpropagation, various optimization techniques (e.g., SGD, Adam), and advanced models such as Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), and Generative Adversarial Networks (GANs). To ensure practical mastery, each chapter is reinforced with hands-on exercises, code implementations, and case studies. By emphasizing both theoretical rigor and practical implementation, this text equips readers with the skills needed to apply DL to revolutionary areas such as natural language processing, image recognition, and healthcare. **Salient**

Features:

- **Foundational Concepts:** Structured coverage of Machine Learning fundamentals, including Linear Models, Support Vector Machines (SVM), and Perceptron, before diving into deep network architectures.
- **Core Network Mechanics:** Detailed explanations of Neural Network training processes, focusing on Loss Functions, Backpropagation, and Stochastic Gradient Descent principles.
- **Advanced Architectures:** Dedicated analysis of state-of-the-art models like Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), and the latest Transformers and Generative Adversarial Networks (GANs).
- **Practical Optimization:** Thorough discussion on Hyperparameter Optimization, Batch Normalization, and various Stochastic Optimization algorithms (e.g., AdaGrad, Adam) to maximize model performance and training efficiency.
- **Dimensionality Reduction:** Explores essential techniques like Principal Component Analysis (PCA), Linear Discriminant Analysis (LDA), Manifold Learning, and Autoencoders for effective data

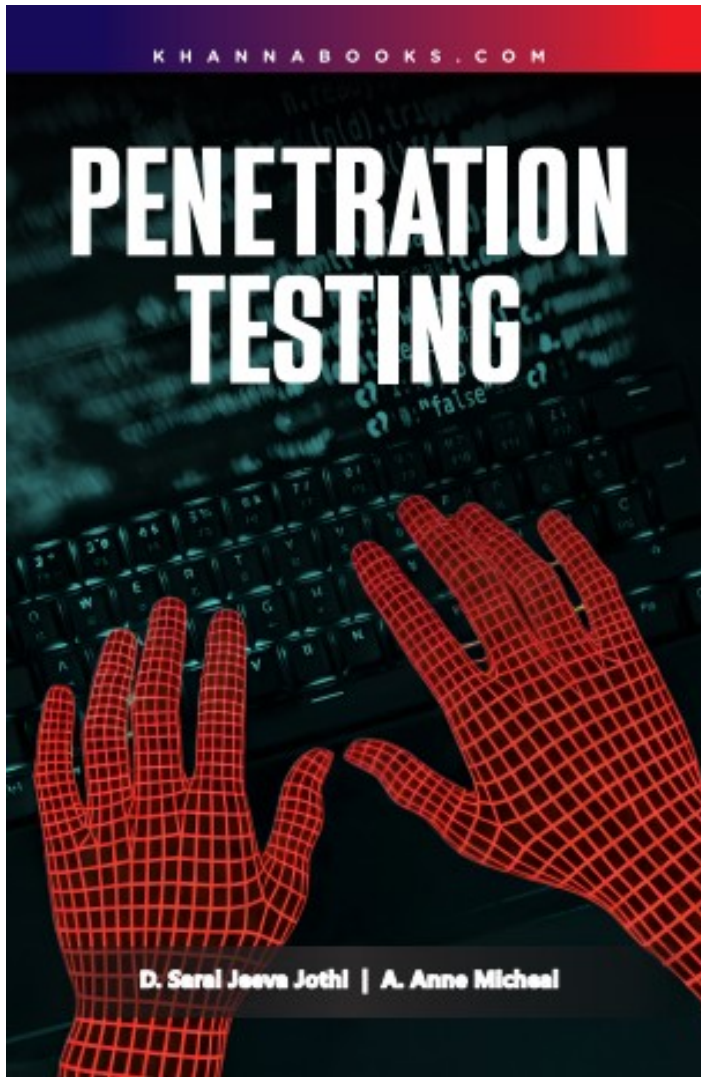


Table of Contents

- Introduction to Machine Learning (ML)
 - Introduction to Deep Learning
 - Dimensionality Reduction
 - Optimization and Generalization
 - Case Study and Applications
-

Author

Nancy Noella R. S., Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology **S. Nithya**, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology **V. Gowri Manohari**, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology



Penetration Testing

Author :	Anne Michel
ISBN 13 :	978-93-55387-36-3
ISBN 10 :	93-55387-36-9
E-ISBN 13 :	978-93-55387-36-3
Edition :	First
Pages :	104
Type of book :	Paperback
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

Penetration Testing In today's digital age, where cyber threats are constantly evolving, Penetration Testing—often referred to as ethical hacking—is the most crucial practice for identifying and addressing security vulnerabilities. Penetration Testing is designed to provide a comprehensive understanding of the field and its methodologies. This book offers a systematic approach to simulating cyberattacks on systems to uncover weaknesses before malicious hackers can exploit them. Readers will gain the theoretical knowledge and hands-on experience necessary to conduct effective security assessments in a controlled, ethical, and legal manner. You will master the entire pen testing lifecycle: from initial reconnaissance and exploitation to post-exploitation and delivering a detailed, actionable report. By emphasizing practical skills and real-world tools, this resource prepares students and professionals alike to confidently secure systems and ensure compliance with critical industry regulations like PCI DSS, GDPR, and HIPAA. **Salient Features:**

- **Foundational Knowledge:** Introduction to the basic principles of Cryptography, including detailed coverage of algorithms like AES, DES, RSA, and SHA.
- **Methodology Mastery:** In-depth discussion of the three major penetration testing approaches: Black Box, White Box, and Grey Box, and when to choose each method.
- **Five-Phase Process:** Step-by-step guidance through the entire pen testing procedure, covering Planning & Reconnaissance, Scanning, Gaining Access, Post-Exploitation, and Reporting.
- **OS & Network Exploitation:** Hands-on experience with Windows and Linux password hashes, exploitation in Internetworks, and testing Wireless Networks.
- **Industry-Standard Tools:** Practical application of essential tools and frameworks, including Nmap for scanning, the Metasploit Exploitation Framework, and Netcat for pivoting and remote connections.
- **Compliance and Ethics:** Comprehensive coverage of the Ethical and Legal Considerations required to conduct penetration tests responsibly, ensuring tests adhere to governance frameworks.
- **Actionable Reporting:** Detailed structure and components of a professional Penetration Testing Report, including the Executive Summary, Risk Assessment, and clear, prioritized Recommendations for remediation.

Table of Contents

Preface

- Introduction to Penetration Testing
- Penetration Testing Methodologies
- Phase of Penetration
- Penetration Testing with Internet Works
- Penetration Testing in Linux, Window

Author

Anne Michel, Saral Jeeva Jothy



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320