

VULNERABILITY ASSESSMENT AND PENETRATION TESTING

A Textbook for Undergraduate Students

This textbook provides a comprehensive introduction to the concepts, methodologies, tools, and techniques used in Vulnerability Assessment and Penetration Testing. The book is designed to help undergraduate students understand how to identify security weaknesses, evaluate risks, and strengthen the security posture of systems, networks, and applications.

The content is organized into five units covering the foundations of vulnerability assessment and penetration testing, network intrusion testing, web attacks, securing web applications, and security in application development.

Each topic is explained with examples, illustrations, summaries, and review questions to enhance learning.

The book emphasizes ethical and authorized testing practices and equips students with the knowledge required for academic study, laboratory practice, professional certification, and future careers in cybersecurity.

KEY FEATURES

- Comprehensive coverage of VAPT concepts
- Step-by-step approach to vulnerability assessment
- Detailed discussion on network, web, and application security
- Practical insights on tools and techniques
- Real-world examples and case studies
- Review questions for better understanding



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