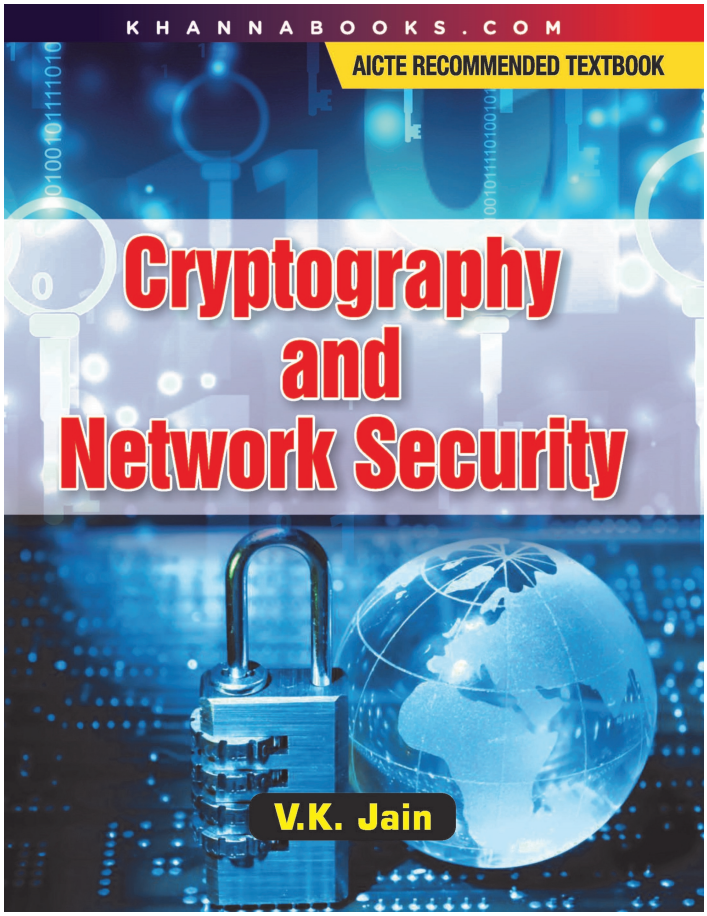

Cryptography and Network Security

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Product Description

This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Table of Contents

Chapter 1: Introduction to Cryptography and Network Security. **Chapter 2:** Basic Concepts in Data Encryption. **Chapter 3:** Model Block Cipher. **Chapter 4:** Groups, Ring and Field. **Chapter 5:** Public Key Cryptosystem and RSA. **Chapter 6:** Authentication. **Chapter 7:** Digital Signatures. **Chapter 8:** Authentication Application. **Chapter 9:** IP Security. **Chapter 10:** Web Security. **Chapter 11:** System Security. **Index**

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V.K. Jain Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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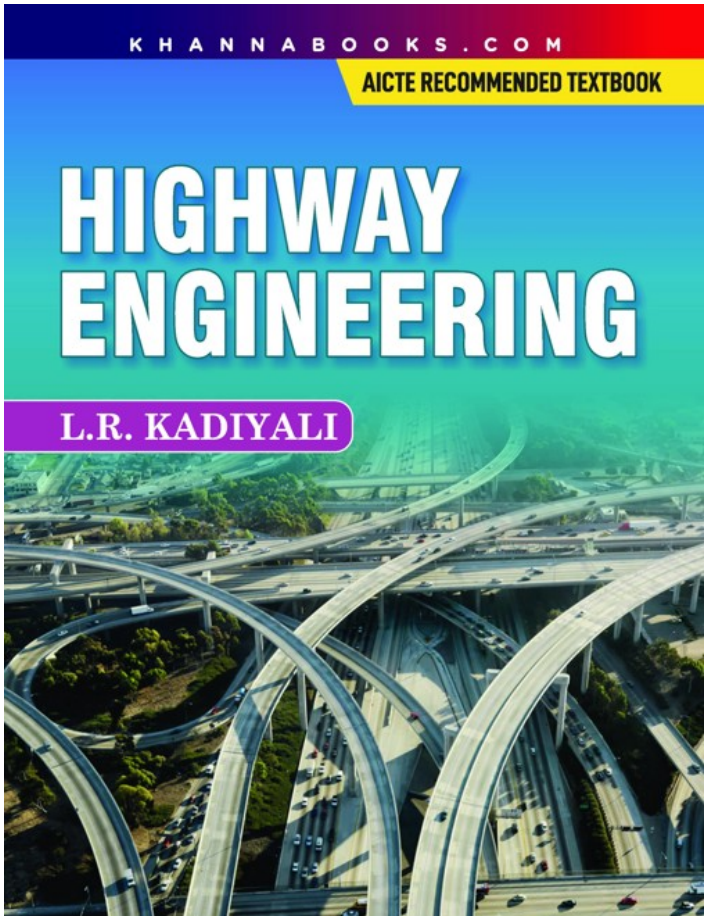

Highway Engineering

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Product Description

This book on Highway Engineering shall be useful for B.E./B. Tech & M.E/ M. Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.

Table of Contents

Chapter 1: Development of Highways. **Chapter 2:** Highway Administration and Finance. **Chapter 3:** Road User and the Vehicle. **Chapter 4:** Geometric Design. **Chapter 5:** Design Surveys, Soils and Aggregates, Investigations and Tests. **Chapter 6:** Design, Drawing, Estimates and Projects Report. **Chapter 7:** Economic Evaluation of Highway Projects. **Chapter 8:** Embankment Design and Construction. **Chapter 9:** Types of Pavements and Factors Governing Pavement Design. **Chapter 10:** Pavement Materials. **Chapter 11:** Design of Flexible Pavements. **Chapter 12:** Rigid Pavements. **Chapter 13:** Soil Stabilization. **Chapter 14:** Granular Sub-Bases, Bases and Surface Courses. **Chapter 15:** Brick, Stone and Cement Concrete Block Pavements. **Chapter 16:** Hill Roads. **Chapter 17:** Rural Roads (Low Volume Roads). **Chapter 18:** Urban Roads **Chapter 19:** Expressways **Chapter 20:** Toll Roads. **Chapter 21:** Desert Roads. **Chapter 22:** Roads in Swampy and Water-Logged Areas and in Black Cotton Soils. **Chapter 23:** Road Construction Machinery. **Chapter 24:** Road Construction Programming and Management. **Chapter 25:** Highway Drainage. **Chapter 26:** Cross-Drainage Structures. **Chapter 27:** Road Accident and Highway Design. **Chapter 28:** Road Signs. **Chapter 29:** Road Markings. **Chapter 30:** Traffic Signals. **Chapter 31:** Highway Safety Appurtenances. **Chapter 32:** Highway Maintenance. **Chapter 33:** Pavement Evaluation. **Chapter 34:** Overlay Design and construction. **Chapter 35:** Use of Geosynthetics. **Chapter 36:** Environmental, Landscaping and Arboriculture. **Chapter 37:** Airport Engineering.

Author

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