

AICTE Recommended Textbook as per Model Curriculum -2018



AN INTEGRATED APPROACH TO

# COMPUTER NETWORKS

Bhavneet Sidhu



## An Integrated Approach to Computer Networks

|                         |   |
|-------------------------|---|
| <b>Author :</b>         | Bhavneet Sidhu  |
| <b>ISBN 13 :</b>        | 978-81-87325-72-7   |
| <b>ISBN 10 :</b>        | 81-87325-72-0   |
| <b>E-ISBN 13 :</b>      | 978-81-87325-72-7   |
| <b>Edition :</b>        | 1   |
| <b>Pages :</b>          | 584   |
| <b>Type of book :</b>   | Paperback   |
| <b>Weight (g) :</b>     | 780.00  |
| <b>Year :</b>           | 2021  |
| <b>Language :</b>       | English   |
| <b>Publisher :</b>      | Khanna Publishing House   |
| <b>M.R.P :</b>          | Rs 425.00   |
| <b>Categories :</b>     | <a href="#">Computer Science Engineering</a> , <a href="#">Computer Science Engineering</a> |
| <b>Condition Type :</b> | New   |
| <b>Country Origin :</b> | India   |

## Product Description

Computer networks have become essential part of modern computing. As a designer, developer, programmer, or user it is absolutely necessary to have a good understanding of the concepts and techniques involved in these modern networking technologies. This book treats the Network as a system composed of inter related building blocks, giving students and professionals the best possible conceptual foundation for better understanding of current networking technologies as well as the further technologies of the industries.



Khanna Publishing House

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

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

## Table of Contents

**Chapter 1:** Introduction to Computer Networks. **Chapter 2:** Network Topologies. **Chapter 3:** Reference Models-OSI and TCP/IP. **Chapter 4:** Transmission Media. **Chapter 5:** Electromagnetic Signals and Modulation. **Chapter 6:** Switching Principles. **Chapter 7:** Multiplexing Techniques. **Chapter 8:** Telephone System and ISDN Services. **Chapter 9:** Data Link Layer. **Chapter 10:** Multiple Access Protocols. **Chapter 11:** Introduction to LAN and MAN Protocols. **Chapter 12:** Network Layer. **Chapter 13:** Internetworking Devices. **Chapter 14:** Transport Layer. **Chapter 15:** Session and Presentation Layer. **Chapter 16:** Application Layer. **Chapter 17:** Network Security. **Chapter 18:** Some Network Standards.

## Author

**Bhavneet Sidhu** Mrs. Bhavneet Sidhu is presently working as a Lecturer of Computer Science Department of computer science and Technology at Guru Nanak Dev University, Amritsar (Punjab). She obtained her MCA degree from Guru Nanak Dev University, Amritsar in 2001. She has over four years of teaching experience. She has been teaching computer Networks for the last three years and during this time she developed keen interest in networking and was inspired to write a book on this field. She has written this book keeping in view the interest and the needs of the students.



**Khanna Publishing House**

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

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