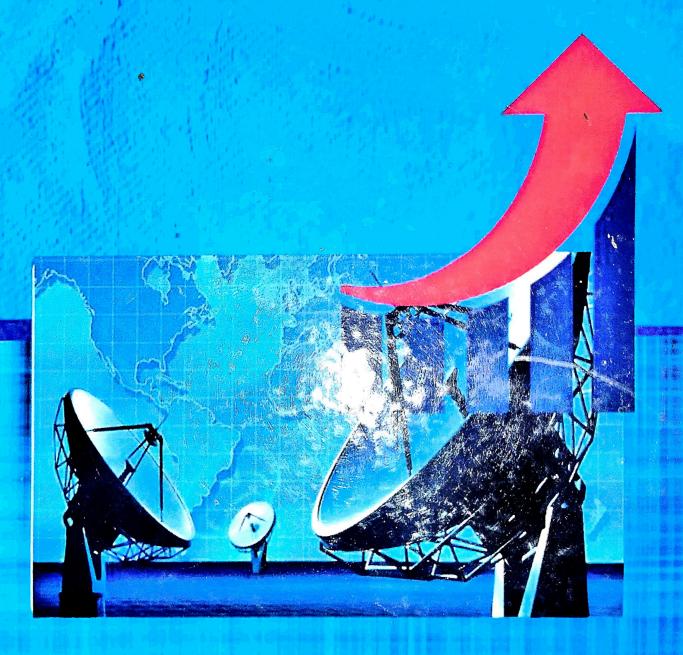
Basic Fundamentals of Telecommunication





Prof. Dr. Rajeev Shrivastava



Basic Fundámentals of Telecommunication

Prof. Dr. Rajeev Shrivastava





ISBN - 978-81-933387-3-5 First edition, 2017

Price: Rs 170/-Size: 5.5" x 8.5"

Copyrights © 2017

written permission from the editor and the concerned authors. any form by any electronic or mechanical means without the All rights reserved. No part of this book may be reproduced in

Bibliographic Information:

Title: Basic Fundamentals of Telecommunication

Author: Prof. Dr. Rajeev Shrivastava

Publisher: JHERF

Year: 2017



International

Publisher:

Jabalpur Research Foundation (registered under the government of India society acts, 1973 since the year 2013), Madhya Pradesh, Dr. Sourabh Jain, Publisher & Editor in Chief, JRF under

Web: http://http://publications.springer.co.in

Year: 2017

Publisher's address:

JRF Corporate Office, 574/1,Agrawal Colony Jabalpur MP, India – 482001. Contact: 91-9755727008; 0761-4081259

PRINCETON INSTITUTE OF ENGINEERING

& TECHNOLOGY FOR WOMEN
Chowdarguda, Korremula (V)
Ghatkesar (M), Medchal Dist, T.S-500086

ACKNOWLEDGEMENT

PRABHU G. BENAKOP, Principal, Indur Institute of Engineering & I would like to express my sincere and special gratitude to Dr. away from them. This book could see the light of day due to supported and encouraged me in spite of all the time it took $_{\mbox{\scriptsize me}}$ Telecommunication". I would like to thank my family, who provided their detail research and views for "Basic Fundamentals of Technology and Indur Education Society Siddipet Telangana who generous support from the Jabalpur Higher Education and Research Foundation and JHERF Publication. This volume is wholly a collective efforts paid by all the authors and I am sure their valuable venture. This cause would not have been possible without the great contributions increased the significance of the book. The readers and beneficiaries vary from academicians, professional engineers and scientists, to undergraduate and graduate students from all over the

Prof. Dr. Rajeev Shrivastava

PRINCETON INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN Chowdaryguda, Korremula (V), Ghatkesar (M), Medchal Dist, T S-500086

INTRODUCTORY CONCEPTS

CHAPTER-1

1. INTRODUCTORY CONCEPTS

1.1. What Is Telecommunication?

a descriptive term, but of somewhat broader scope. Some take the view transporting telecommunication signals. communication at a distance of voice, data, and image information (e.g., TV provider of this service is the local telephone company. We hold with a that telecommunication deals only with voice telephony, and the typical television." Another term we often hear is electrical communication. This is transmission of signals over long distance, such as by telegraph, radio or distance. The IEEE dictionary (Ref. 2) defines telecommunications as "the business; but what is it? Webster's (Ref. 1) calls it communications at a System as the leader on the list. We know telecommunication is big on the top. Transferring this information to the Fortune 500, again put Bell However, if one checked the Fortune 100 Utilities, the Bell System was up Bell System manufacturing arm, was number seven on the Fortune 500. held the safe and dependable Bell stock. In 1982, Western Electric Co., the most employees, and the greatest income. Every retiree with any sense in the United States even though it could not be found on the Fortune 500 Prior to divestiture, the Bell System was the largest commercial company telecommunications may reach 900,000 million dollars in the year 2000. 2 to telecommunication services worldwide (1999). Annual expenditures on we add cellular and PCS users,1 there are about 1800 million subscribers media. There are four basic types of medium: (1) wire-pair, (2) coaxial The word media (medium, and facsimile). These media, therefore, will be major topics of this book wider interpretation. listing of the largest companies. It had the biggest fleet of vehicles, the Many people call telecommunication the world's most lucrative industry. If cable, (3) fiber optics, and (4) radio. Telecommunication encompasses the electrical singular) also is used This is termed transmission to describe what is

About Author



He has completed B.E. (Electronics & Communication) in 2002 from GRKIST Jabalpur along with M.E. (Digital Communication) in 2009 from SRIT Jabalpur and completed PhD (Image Processing) from JVWU Jaipur. He completed M.B.A (Marketing) in 2009 from IGNOU. His total work experience in academic field is nearly 11 years along with industrial experience of 3 years. He has published 27 international papers and presented 16 papers in international/national conference. Presently he is working as a Professor & Head (ECE) in Indur Institute of Engineering & Technology, SIDDIPET.



ISBN No. 978-81-933387-3-5

Price:650

JRF

Published By
JHERF Corporate Office
Educational & Technical Publishers
574/1, Agrawal Colony, Jabalpur 482001
M.P. India

