

**Dept. of Electronics & Communication
Engineering**

**Digital Communication Laboratory (EC592)
Laboratory Manual**

Version 2



**Meghnad Saha Institute of Technology
Nazirabad, Kolkata-700150**

Digital Communication Laboratory Manual

American Council on Education

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Digital Communication Laboratory Manual:

Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09 **Introduction to Wireless Digital Communication** Robert W. Heath Jr., 2017-04-04 The Accessible Guide to Modern Wireless Communication for Undergraduates Graduates and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science yet the concepts have remained elusive for students who are not specialists in the area This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates graduates and practicing electrical engineers Notably the book builds on a signal processing foundation and does not require prior courses on analog or digital communication Introduction to Wireless Digital Communication establishes the principles of communication from a digital signal processing perspective including key mathematical background transmitter and receiver signal processing algorithms channel models and generalizations to multiple antennas Robert Heath's less is more approach focuses on typical solutions to common problems in wireless engineering Heath presents digital communication fundamentals from a signal processing perspective focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems He describes specific receiver algorithms for implementing wireless communication links including synchronization carrier frequency offset estimation channel estimation and equalization While most concepts are presented for systems with single transmit and receive antennas Heath concludes by extending those concepts to contemporary MIMO systems To promote learning each chapter includes previews bullet point summaries examples and numerous homework problems to help readers test their knowledge Basics of wireless communication applications history and the central role of signal processing Digital communication essentials components channels distortion coding decoding encryption and modulation demodulation Signal processing linear time invariant systems probability random processes Fourier transforms derivation of complex baseband signal representation and equivalent channels and multi rate signal processing Least squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation symbol mapping constellations signal bandwidth and noise Synchronization including symbol frame and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and or receive antennas including SIMO MISO and MIMO OFDM Register your product at informit.com register for convenient access to downloads updates and corrections as they become available Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12 *Digital Communications With Lab Manual* Kn Hari Bhat, 2009-01-01 *A Laboratory Manual of Human Anatomy* Lewellys Franklin Barker, 1904 *Lab Manual for Single- and Multiple-chip Microcomputer Interfacing* Peter Song, G. Jack Lipovski, 1988 **Sm Modern Electronic Comm I/m S/m Tif** Miller, 1998-07 *A Guide to the Evaluation of Educational Experiences in the Armed Services*, 2004 *The 1982 Guide to the Evaluation of Educational*

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