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Topics covered include: digital communications at the block diagram level, data compression, Lempel-Ziv algorithm, scalar and vector quantization, sampling and aliasing, the Nyquist criterion, PAM and QAM modulation, signal constellations, finite-energy waveform spaces, detection, and modeling and system design for wireless communication.

Principles of Digital Communications I - MIT OpenCourseWare

This course is the second part of a two-course sequence. The first course in the sequence is 6.450 Principles of Digital Communication I. The sequence continues in 6.452 Principles of Wireless Communications. Course Collections. See related courses in the following collections: Find Courses by Topic. Electrical Engineering > Digital Systems

Principles of Digital Communication II - MIT OpenCourseWare

Simply the best book on Digital Communication. It is mathematical, but with patience, i.e. in one month in combination with video lectures on MIT website, one can really understand the subject. Even the video lectures do not come as close to the contents of the book. The book is really worth and very extensive.

Principles of Digital Communication: Amazon.co.uk: Robert ...

many other kinds of systems, we focus on the fundamental system aspects of modern digital communication. Digital communication is a field in which theoretical ideas have had an unusually powerful impact on system design and practice. The basis of the theory was developed in 1948 by Claude Shannon, and is called information theory.

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Principles of Digital Communication I - MIT OpenCourseWare

Lecture 1: Introduction: A layered view of digital communication View the complete course at: <http://ocw.mit.edu/6-450F06> License: Creative Commons BY-

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Lec 1 | MIT 6.450 Principles of Digital Communications I ...

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Principles of Digital Communication - MIT OpenCourseWare ...

Introduction to digital communication : 2: Coding for discrete sources : 3: Quantization : 4: Source and channel waveforms (PDF - 1.1 MB) 5: Vector spaces and signal space : 6: Channels, modulation, and demodulation : 7: Random processes and noise (PDF - 1.0 MB) 8: Detection, coding, and decoding (PDF - 1.1 MB) 9

Lecture Notes | Principles of Digital Communications I ...

This course is a graduate level introduction to the basic principles of digital communication systems. A digital communication system is one that transmits a source (voice, video, data, etc.) from one point to another, by first converting it into a stream of bits, and then into symbols that can be transmitted over channels (cable, wireless, storage, etc.).

Syllabus | Principles of Digital Communications I ...

It's a first year graduate course in the principles of digital communication. It's sort of the major first course that you take as a graduate student in the communication area. The information theory course uses this as a prerequisite, uses it in a rather strong way. 6.432, the stochastic process course uses it as a prerequisite. 6.451, which is the companion course which follows after this uses it as a prerequisite.

Lecture 1: Introduction | Video Lectures | Principles of ...

many other kinds of systems, we focus on the fundamental system aspects of modern digital communication. Digital communication is a field in which theoretical ideas have had an unusually powerful impact on system design and practice. The basis of the theory was developed in 1948 by Claude Shannon, and is called information theory.

Principles of Digital Communication

MIT 6.450 Principles of Digital Communications, I Fall 2006 - YouTube The course serves as an introduction to the theory and practice behind many of today's communications systems. 6.450 forms the...

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Lecture 2: Discrete source encoding View the complete course at: <http://ocw.mit.edu/6-450F06> Instructors: Prof. Lizhong Zheng, Prof. Robert Gallager License:...

Lec 2 | MIT 6.450 Principles of Digital Communications I ...

Introduction; Sampling Theorem and Orthogonal PAM/QAM; Capacity of AWGN Channels View the complete course: <http://ocw.mit.edu/6-451S05> License: Creative Com...

Lec 1 | MIT 6.451 Principles of Digital Communication II ...

The focus is on coding techniques for approaching the Shannon limit of additive white Gaussian noise (AWGN) channels, their performance analysis, and design principles. After a review of...

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Topics covered include: digital communications at the block diagram level, data compression, Lempel-Ziv algorithm, scalar and vector quantization, sampling and aliasing, the Nyquist criterion, PAM and QAM modulation, signal constellations, finite-energy waveform spaces, detection, and introduction to communication system design.

6.450 Principles of Digital Communication - I, Fall 2002

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