

*By John G Proakis Communication Systems Engineering 1st First Edition Hardcover*



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### By John G Proakis Communication

This is the second post in the series aimed at developing a better understanding of Shannon's capacity equation. In this post let us discuss the bounds on communication given the signal power and bandwidth constraint. Further, the following writeup is based on Section 12.6 from Fundamentals of Communication Systems by John G. Proakis, Masoud Salehi. In the first post in this series, we have ...

### Bounds on Communication based on Shannon's capacity

Analysis of Doppler Effect in OFDM signals for Underwater Acoustic Channels Ranjani.G #1, Sadashivappa.G \*2 # Dept of TCE,RVCE,Bangalore,India 1ranjanig@rvce.edu.in \* Dept of TCE,RVCE,Bangalore,India 2 sadashivappag@rvce.edu.in Abstract—Acoustic communication is best supported at low frequency.Since the available bandwidth is less, higher order modulation techniques such as OFDM are employed.

### Analysis of Doppler Effect in OFDM signals for Underwater ...

Data transmission (also data communication or digital communications) is the transfer of data (a digital bitstream or a digitized analog signal) over a point-to-point or point-to-multipoint communication channel.Examples of such channels are copper wires, optical fibers, wireless communication channels, storage media and computer buses.The data are represented as an electromagnetic signal ...

### Data transmission - Wikipedia

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### Baseband - Wikipedia

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The remainder of this paper is organized as follows. In Sections 2 Underwater acoustic sensor networks: communication architecture, 3 Underwater acoustic sensor networks: design challenges we introduce the communication architecture and design challenges, respectively, of underwater acoustic sensor networks. In Section 4, we investigate the underwater acoustic communication channel and ...

### Underwater acoustic sensor networks: research challenges ...

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Biography. I obtained a B.Sc. in 1990 from the University of Glasgow and a Ph.D. from the University of London in 1993, both in Mathematics. I was then a Royal Society Fellow at Institute for Signal and Information Processing at the Swiss Federal Institute of Technology, Zurich, from 1993 to 1994. After that, I was a Lloyd's of London Tercentenary Foundation Research Fellow at Royal Holloway ...

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