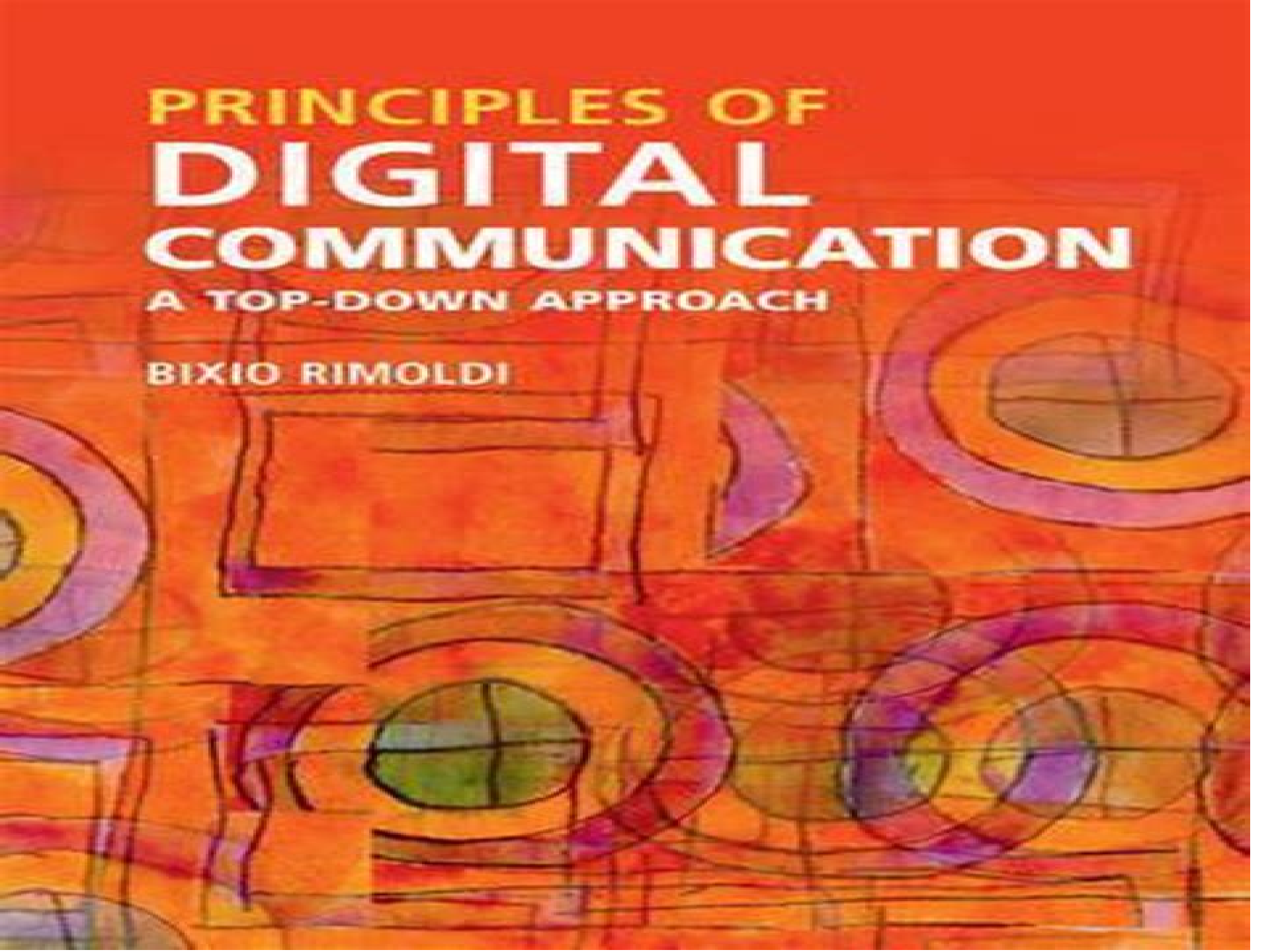


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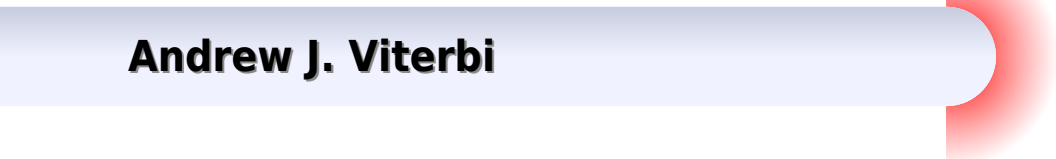
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Andrew J. Viterbi



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Digital Communication John R. Barry,Edward A. Lee,David G. Messerschmitt,2012-12-06

This book concerns digital communication Specifically we treat the transport of bit streams from one geographical location to another over various physical media such as wire pairs coaxial cable optical fiber and radio We also treat multiple access channels where there are potentially multiple transmitters and receivers sharing a common medium Ten years have elapsed since the Second Edition and there have been remarkable advances in wireless communication including cellular telephony and wireless local area networks This Third Edition expands treatment of communication theories underlying wireless and especially advanced techniques involving multiple antennas which turn the traditional single input single output channel into a multiple input multiple output MIMO channel This is more than a trivial advance as it stimulates many advanced techniques such as adaptive antennas and coding techniques that take advantage of space as well as time This is reflected in the addition of two new chapters one on the theory of MIMO channels and the other on diversity techniques for mitigating fading The field of error control coding has similarly undergone tremendous changes in the past decade brought on by the invention of turbo codes in 1993 and the subsequent rediscovery of Gallager's low density parity check codes Our treatment of error control coding has been rewritten to reflect the current state of the art Other materials have been reorganized and reworked and three chapters from the previous edition have been moved to the book's Web site to make room

Principles of Digital Communication Bixio Rimoldi,2015

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