Linear Block Codes

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channel coding lies at the heart of digital communication and data storage and this detailed introduction describes the core theory as well as decoding algorithms implementation details and performance analyses in this book professors ryan and lin provide clear information on modern channel codes including turbo and low density parity check ldpc codes they also present detailed coverage of bch codes reed solomon codes convolutional codes finite geometry codes and product codes providing a one stop resource for both classical and modern coding techniques assuming no prior knowledge in the field of channel coding the opening chapters begin with basic theory to introduce newcomers to the subject later chapters then extend to advanced topics such as code ensemble performance analyses and algebraic code design 250 varied and stimulating end of chapter problems are also included to test and enhance learning making this an essential resource for students and practitioners alike

the capacity of wireless data communications is lagging behind demands due to unsatisfactory performance of the existing wireless networks such as low data rates low spectral efficiency and low quality of service space time coding is an effective transmit diversity technique to combat fading in wireless communications space time codes are a highly bandwidth efficient approach to signalling within wireless communication that takes advantage of the spatial dimension by transmitting a number of data streams using multiple co located antennas there are various approaches to the coding structures including space time trellis coded modulation space time turbo codes and also layered architectures the central issue in all these various coding structures is the exploitation of multipath effects in order to achieve very high spectral efficiencies the spectral efficiencies of

traditional wireless systems range between 1 5bps sec hz but by using space time techniques spectral efficiencies of 20 40bps sec hz have been possible hence space time coding enables an increase in capacity by an order of magnitude this is the main reason why space time codes have been included in the standards for the third generation wireless communication systems and ultimately why space time coding will be in great demand by individuals within industry and academia the comprehensive understanding of space time coding is essential in the implementation of 3g and as the only title currently available space time coding will be the standard text for researchers telecommunication engineers and network planners academics and undergraduate postgraduate students telecommunications managers and consultants

turbo code applications a journey from a paper to realization presents c temporary applications of turbo codes in thirteen technical chapters each chapter focuses on a particular communication technology utilizing turbo codes and they are written by experts who have been working in related th areas from around the world this book is published to celebrate the 10 year anniversary of turbo codes invention by claude berrou alain glavieux and punya thitimajshima 1993 2003 as known for more than a decade turbo code is the astonishing error control coding scheme which its perf mance closes to the shannon s limit it has been honored consequently as one of the seventeen great innovations during the rst fty years of information theory foundation with the amazing performance compared to that of other existing codes turbo codes have been adopted into many communication s tems and incorporated with various modern industrial standards numerous research works have been reported from universities and advance companies worldwide evidently it has successfully revolutionized the digital commu cations turbo code and its successors have been applied in most communications startingfromthegroundorterrestrialsystemsofdatastorage adslmodem and ber optic communications subsequently it moves up to the air channel applications by employing to wireless communication systems and then ies up to the space by using in digital video broadcasting and satellite com

nications undoubtedly with the excellent error correction potential it has been selected to support data transmission in space exploring system as well

data networking is a capability that allows users to combine separate data bases telecommunication systems and specialised computer operations into a single integrated system so that data communication can be handled as easily as voice messages data communications is the problem of getting information from one place to another reliably secure both from channel disruptions and deliberate interference while conforming to user requirements ip internet protocol is the central pillar of the internet and was designed primarily for internetworking as being a simple protocol almost any network could carry the business world appears to increasingly revolve around data communications and the internet and all modern data networks are based around either the internet or at least around ip internet protocol based networks however many people still remain baffled by multiprotocol networks how do all the protocols fit together how do i build a network what sort of problems should i expect this volume is intended not only for network designers and practitioners who for too long have been baffled by the complex jargon of data networks but also for the newcomer eager to put the plethora of protocols into context after the initial boom the rate of ip development is now beginning to stabilise making a standard textbook and reference book worthwhile with a longer shelf life highly illustrated and written in an accessible style this book is intended to provide a complete foundation textbook and reference of modern ip based data networking avoiding explanation of defunct principles that litter other books network ip engineers network operators engineering managers and senior undergraduate students will all find this invaluable

trellis and turbo coding are used to compress and clean communications signals to allow greater bandwidth and clarity presents the basics theory and applications of these techniques with a focus on potential standard state of the art methods in the future provides a classic basis for anyone who works in the area of digital communications

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a comprehensive introduction to the basic principles design techniques and analytical tools of wireless communications

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