ORDER YOUR INSPECTION COPY NOW

You may request an inspection copy of a textbook via the web, email, fax, or post:



www.cambridge.org/textbooks



inspectioncopy@cambridge.org



fax +44 (0)1223 326111



Please complete this form and return it to: The Academic TB Dept, Cambridge University Press, Cambridge CB2 2RU, UK

Title	ISBN	
First Name	Surname	
Department		
Academic Institution		
Address		
Postcode	Country	
Email address		
Course Name(s)		
Level	Number of Students	
Course Date	Local Bookseller(s)	

Our inspection copy policy

In the UK, Australia and New Zealand books are sent out for a maximum of 28 days, after which they must be returned or paid for if they are not adopted for a course of 12 or more students. Outside the UK, Australia and New Zealand, inspection copies are sent as desk copies free of charge. Not all titles are available for inspection in all countries. Lecturers must complete and return the Reply Slip enclosed with each book.

Books not yet published will be sent in the month of publication.

Purchasing Copies

Should you wish to purchase copies of this book, you can do so online via our website at www.cambridge.org/order or by phone +44 (0) 1223 326050, fax +44 (0) 1223 326111, or email directcustserve@cambridge.org When ordering, please quote the catalogue code.

Catalogue code: 26699

OTHER ESSENTIAL TEXTBOOKS IN THIS AREA FROM CAMBRIDGE

Coming in 2003 ...

Introduction to Space-Time Wireless Communications

Arogyaswami Paulraj, Rohit Nabar, Dhananjay Gore

An accessible introduction to the theory of space-time wireless communications. The authors discuss the basics of space-time propagation, space-time channels, channel capacity, spatial diversity, and space-time coding. They highlight important tradeoffs in the design of practical systems and cover advanced topics such as space-time OFDM and spread-spectrum modulation, co-channel interference cancellation, and multiuser MIMO.

The book is an ideal introduction to this rapidly growing field for graduate students taking courses on wireless. Homework problems and other supporting material are available on a companion website.

Spring 2003 310 pages 6 tables 141 figures 0 521 82615 2 Hardback c. 45.00

Space-Time Block Coding for Wireless Communications

Erik Larsson, Petre Stoica

In this important new book, aimed at graduate students and researchers working on wireless communications, the authors begin by discussing general background topics such as fading channels, diversity, and modelling of a channel with multiple antennas. They then present transmitter and receiver structures for use with orthogonal space-time block coding (OSTBC) technology, and describe OSTBC for frequency-selective channels.

Spring 2003 300 pages 10 tables 100 illustrations 0 521 82456 7 Hardback c. 45.00

CAMBRIDGE UNIVERSITY PRESS www.cambridge.org

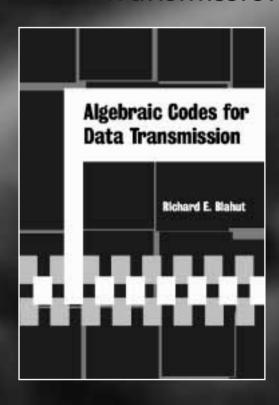
ISBN 0-521-97743-6

Printed in the United Kingdom at the University Press, Cambridge 9 780521 977432

CAMBRIDGE TEXTBOOKS

... all your students need to know

Algebraic Codes for Data Transmission



Richard E. Blahut

Order your inspection copy now

CAMBRIDGE UNIVERSITY PRESS

March 2003

CAMBRIDGE TEXTBOOKS



- Blends mathematical details with actual applications
- Provides up-to-date coverage of important topics such as turbocodes
- Gives details of a wide range of real-world implementations

http://books.cambridge.org/0521553741.htm

February 2003 496 pages 144 line diagrams 19 tables 0 521 55374 1 Hardback £40.00

... all your students need to know

http://books.cambridge.org/0521553741.htm

Algebraic Codes for Data Transmission

Richard E. Blahut, University of Illinois, Urbana-Champaign, USA

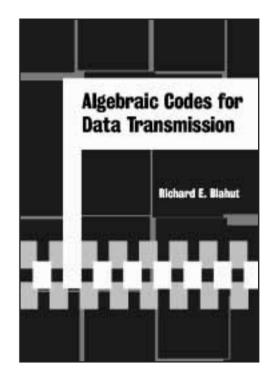
The need to transmit and store massive amounts of data reliably and without error is a vital part of modern communications systems. Error-correcting codes play a fundamental role in minimizing data corruption caused by defects such as noise, interference, crosstalk and packet loss.

This book provides an accessible introduction to the basic elements of algebraic codes, and discusses their use in a variety of applications. The author describes a range of important coding techniques, including Reed-Solomon codes, BCH codes, trellis codes, and turbocodes. Throughout the book, mathematical theory is illustrated by reference to many practical examples.

This is valuable book for graduate students of electrical and computer engineering.

Contents

1. Introduction; 2. Introduction to algebra; 3. Linear block codes; 4. The arithmetic of Galois fields; 5. Cyclic codes; 6. Codes based on the Fourier transform; 7. Algorithms based on the Fourier transform; 8. Implementation; 9. Convolutional codes; 10. Beyond BCH codes; 11. Codes and algorithms based on graphs; 12. Performance of errorcontrol codes; 13. Codes and algorithms for majority decoding.



order your inspection copy now

An accessible introduction to the basic elements of algebraic codes, describing a range of important coding techniques, including Reed-Solomon codes, BCH codes, trellis codes, and turbocodes.