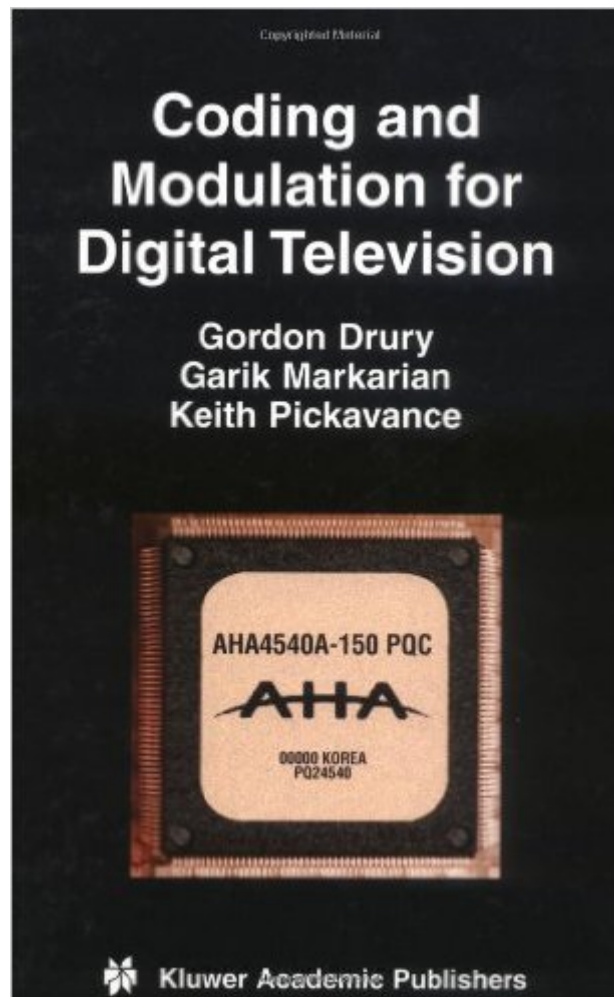


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# Coding And Modulation For Digital Television (Multimedia Systems And Applications)



## Synopsis

Coding and Modulation for Digital Television presents a comprehensive description of all error control coding and digital modulation techniques used in Digital Television (DTV). This book illustrates the relevant elements from the expansive theory of channel coding to how the transmission environment dictates the choice of error control coding and digital modulation schemes. These elements are presented in such a way that both the 'mathematical integrity' and 'understanding for engineers' are combined in a complete form and supported by a number of practical examples. In addition, the book contains descriptions of the existing standards and provides a valuable source of corresponding references. Coding and Modulation for Digital Television also features a description of the latest techniques, providing the reader with a glimpse of future digital broadcasting. These include the concepts of soft-in-soft-out decoding, turbo-coding and cross-correlated quadrature modulation, all of which will have a prominent future in improving efficiency of the next generation DTV systems. Coding and Modulation for Digital Television is essential reading for all undergraduate and postgraduate students, broadcasting and communication engineers, researchers, marketing managers, regulatory bodies, governmental organizations and standardization institutions of the digital television industry.

## Book Information

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## Customer Reviews

I'm a young broadcast engineer working on digital terrestrial TV technology and architecture in order to develop the TV industry of my country (Islamic Republic of IRAN) and I need some technical materials about modulation techniques and issues related to this topic. So I have read almost all the books and also I have made an archive containing many papers and lecture documents in this field. There are below ten books related to OFDM modulation (and also 8VSB!) and the exact number might be 4 items! However this book contained a fast review of three global DTV systems (ATSC, DVB & ISDB) from the view point of coding and modulation and also had some useful issues about modulation and coding techniques; theory and practical aspects. At the end I can recommend this book for any professional who has not reached a professional level of design and implementation of DTV systems and anyone who wishes to be familiar with DTVs.

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