



DVB: The Family of International Standards for Digital Video Broadcasting (Signals and Communication Technology)

By Ulrich Reimers

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This second edition provides first-hand information about the most recent developments in the exciting and fast moving field of telecommunications media and consumer electronics. The DVB group developed the standards which are being used in Europe, Australia, Southeast Asia, and many other parts of the world. Some 150 major TV broadcasting companies as well as suppliers for technical equipment are members of the project. This standard is expected to be accepted for worldwide digital HDTV broadcasting. This book is readable for non-experts with a background in analog transmission, and demonstrates the fascinating possibilities of digital technology. For the second edition, the complete text has been up-dated thoroughly. The latest DVB standards are included in three new sections on Interactive Television, Data Broadcasting, and The Multimedia Home Platform.

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Editorial Review

Review

"Dr. Reimers has been described as the Father of the DVB...and no one is better qualified to write about [its] developments... A real strength of this book is that in every case it not only provides the detailed technical information about the part of the system that is under consideration, but it also explains the background requirements that the engineers were striving to satisfy, and goes on to explain why the various technical decisions were arrived at. Having worked your way carefully through the chapter on source coding of video signals, for example, you begin to understand what the original difficulties were, what the various options were, and why the particular solutions were chosen ... As well as satisfying its main aims, **DIGITAL VIDEO BROADCASTING** is an excellent reference book which covers most aspects of digital television engineering, and the author has helpfully gathered together in one place the key technical facts that would otherwise require you to have access to a dozen other books. Whether you are searching for information on digital coding systems, on compression, JPEG, the differences between MPEG1 and MPEG2, or whether you need to know how several different types of signals can be multiplexed together, or what the effects of using different error correction coding parameters will be, the information is there in the book. Equally importantly, you can actually find what you are looking for, because the index has been compiled with care. There is an extensive and useful bibliography which will be helpful for those readers who might want to know more about particular topics, and a comprehensive list of acronyms and abbreviations relating to digital broadcasting ... If you want a technical book to explain about digital broadcasting - this is certainly the one to buy."

Image Technology

From the Back Cover

The Digital Video Broadcasting Project (DVB) is an industry-led consortium of over 300 broadcasters, manufacturers, network operators, software developers, regulatory bodies and others in over 40 countries committed to designing global standards for the delivery of digital television and data services. Ulrich Reimers is the chairman of its Technical Module and is therefore able to provide up-to-date insider information. This second edition of the book was revised and substantially extended by a new team of authors led by Professor Reimers. New chapters include Data Broadcasting, Solutions for Interactive Services, and the promising Multimedia Home Platform (MHP). Substantially revised are those on MPEG-2 systems and multiplexing, the standard for terrestrial transmission and its decoding technique, and the first chapter, the introduction to the DVB world.

Users Review

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