

# Digital Video Broadcasting Terrestrial

**Ronald de Bruin, Jan Smits**

**Digital Television** Herve Benoit, 2009-10-28 Digital Television is as an authoritative and complete overview that describes the technology of digital television broadcasting. It gives you a thorough technical description of the underlying principles of the DVB standard and the various steps of signal processing. Also included is a complete technical glossary of terms, abbreviations, and expressions that gives you quick reference. Now in its 3rd edition, Digital Television, this book is completely up-to-date with standard and new technologies including: - DVB and DVB-S2 - IPTV - Mobile TV DVB-H - HDTV - High Definition formats 1080i and 720p - Compression including MPEG, H.264, and VC-1 If you are looking for a concise technical briefing that will quickly get you up to speed without getting lost - this is the book you need.

**Digital Terrestrial Television Broadcasting** Paul Dambacher, 2012-12-06 In the past decades, traditional television broadcasting has been an autonomous field which was largely independent of the world of telecommunications and computers. The analog television standards PAL, SECAM and NTSC have remained almost untouched with regard to their picture information. Whatever development took place was essentially in support of programming and was based on the existence of a certain redundancy in the representation of the signal in the time and frequency domain. In the 70s, for example, the teletext system was introduced throughout Europe. A further supplementary digital service in television, introduced in the early 80s, was the Video Programme System (VPS) which utilizes part of the TV data line and ensures that programmes can be recorded with the correct timing on video recorders even when the programmes are delayed. There is no doubt that as far as the transmission from the studio to the viewer is concerned, the future belongs to digital video broadcasting (DVB) which is about to be implemented in the satellite, cable and terrestrial radio transmission media. The European DVB Project finalized its specification for channel coding and modulation for the digital broadband transmission channels at the beginning of 1996.

**Digital Video Broadcasting (DVB)** SABS Standards Division, 2011

*Digital Video Broadcasting* Ronald de Bruin, Jan Smits, 1999 Here's the first overview of the scientific, economic, market, political, legal, and technological factors involved in successfully embedding digital television in our society. This comprehensive assessment of digital video broadcasting (DVB) technology, standards and regulation enables you to understand both the history of this technology, and the convergence processes presently taking place.

*Digital Terrestrial Television Broadcasting* Jian Song,Zhixing Yang,Jun Wang,2015-07-13 This book covers channel coding and modulation technologies in DTTB systems from the general concepts to the detailed analysis and implementation. Covers the Chinese DTTB standard which was announced recently and hasn't been covered in detail Introduces the SFN network using the successful implementation of DTMB in Hong Kong as an example Introduces the latest announced systems including the ATSC M/H and DVB-NGH

*Digital Video Broadcasting (DVB)* Ulrich Reimers,2013-03-09 Digital Video Broadcasting (DVB) is the name for a long list of innovative technical systems for television, radio and data broadcasting. In the world of consumer electronics the DVB systems are the most important developments worldwide. Services based on the DVB systems are in operation in many parts of the world. Even in the USA DVB systems are in operation.

Digital Video and Audio Broadcasting Technology Walter Fischer,2010-03-24 Digital Video and Audio Broadcasting Technology - A Practical Engineering Guide deals with all the most important digital television, sound radio and multimedia standards such as MPEG, DVB, DVD, DAB, ATSC, T-DMB, DMB-T, DRM and ISDB-T. The book provides an in-depth look at these subjects in terms of practical experience. In addition it contains chapters on the basics of technologies such as analog television, digital modulation, COFDM or mathematical transformations between time and frequency domains. The attention in the respective field under discussion is focussed on aspects of measuring techniques and of measuring practice, in each case consolidating the knowledge imparted with numerous practical examples. This book is directed primarily at the specialist working in the field, on transmitters and transmission equipment, network planning, studio technology, playout centers and multiplex center technology and in the development departments for entertainment electronics or TV test engineering. Since the intire field of electrical communications technology is traversed in a wide arc, those who are students in this field are not excluded either. The third edition of this well established reference work includes the new formats MPEG-4 und IPTV, and it already gives an outlook to the newest standards like DVB-SH and DVB-T2.

DVB Ulrich Reimers,2005 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.

**Video Error Concealment Techniques for Multi-Broadcast Reception of Digital TV** Tobias Tröger,2012-10-02

Abstract The transmission of digital TV signals to mobile receivers is often error-prone. As most TV broadcasting techniques provide only moderate error robustness, horizontal lines of consecutive image blocks are lost during decoding of the received video signals. In order to ensure high viewing experiences, these lost slices have to be filled by error concealment techniques. However, the reconstruction qualities of classical approaches which exploit spatial, temporal, or spatio-temporal signal correlations are not convincing yet. In the future, mobile TV receivers will support different broadcasting techniques in parallel. As a result, an erroneous high-resolution video signal and a correctly received low-resolution video signal, both representing the same TV service, will often be available. Focusing on the outlined scenario for multi-broadcast reception of digital TV signals, this thesis introduces the novel category of inter-sequence error concealment algorithms. The basic idea is to fill lost slices of the high-resolution video signal by the interpolated low-resolution video signal. Since the images of this reference signal are often cropped and delayed, robust spatio-temporal image alignment is crucial. By including a pixel-based or a feature-based alignment scheme, the proposed concealment algorithms provide excellent visual qualities and outstanding reconstruction qualities of up to 41 dB PSNR. Classical concealment techniques are outperformed by up to 15 dB PSNR. To further enhance the reconstruction quality, several extensions are introduced. First, the alignment robustness and the interpolation quality are increased. Subsequently, a classical temporal approach is incorporated as an alternative concealment mode to cope with low image qualities of the reference signal. Novel aspects include robust mode selection, enhanced motion estimation, and the reconstruction of the displaced frame differences from the reference signal. As a last extension, spatial refinement tackles blurring of concealed image blocks. Missing spectral components are recovered in a frequency selective way based on approximation and extrapolation principles. By combining all relevant extensions, the PSNR gain adds up to 20 dB with respect to classical concealment. Finally, inter-sequence error concealment is adapted to multi-broadcast reception of two erroneous high-resolution video signals. While spatial alignment can be omitted, classical concealment of blocks, being lost in both video signals, and drift compensation in predictively-coded frames are novel aspects. Again, high visual qualities are obtained and classical concealment is outperformed by up to 15 dB PSNR.

Zusammenfassung Der Empfang digitaler Fernsehsignale mit mobilen Endgeräten wird meist durch Übertragungsfehler gestört. Da viele der eingesetzten Übertragungsstandards nur unzureichende Korrekturmechanismen bieten, können bei der Decodierung der empfangenen Videosignale Blockzeilenverluste auftreten. Um die Verlustgebiete zu verschleiern, werden üblicherweise zeitliche, örtliche oder zeitlich-örtliche Signalkorrelationen ausgenutzt. Die dabei erzielte Rekonstruktionsqualität ist jedoch häufig nicht zufriedenstellend. Zukünftig werden mobile Fernsehempfänger mehrere Übertragungsstandards parallel unterstützen. Durch den Einsatz dieser Mehrfachempfänger ist jedes Fernsehprogramm typischerweise in Form eines gestörten, hochauflösenden Videosignals und eines ungestörten, niedrigauflösenden Videosignals verfügbar. Ausgehend vom Mehrfachempfang digitaler Fernsehsignale wird in dieser Arbeit eine neue Gruppe

von Verfahren zur Fehlerverschleierung beschrieben. Die grundlegende Idee dieser Ansätze besteht darin, verlorene Bildblöcke des hochauflösenden Videosignals durch Blöcke des interpolierten niedrigauflösenden Referenzsignals zu ersetzen. Da das Referenzsignal häufig nur Bildausschnitte zeigt und zudem meist zeitverzögert eintrifft, ist die korrekte Bestimmung der örtlichen Abbildungsparameter und des zeitlichen Versatzes ausschlaggebend für eine hochqualitative Verschleierung. Durch den Einsatz bildbasierter oder merkmalsbasierter Schätzverfahren werden eine exzellente visuelle Bildqualität und eine außergewöhnlich hohe Rekonstruktionsqualität erzielt. Der Spitzensignal-Rauschabstand beträgt bis zu 41 dB. Herkömmliche Verfahren werden um bis 15 dB übertroffen. Um die Rekonstruktionsqualität weiter zu erhöhen werden zahlreiche Erweiterungen der beschriebenen Verschleierungsansätze vorgeschlagen. Zuerst werden die Zuverlässigkeit der Parameterschätzung und die Interpolationsqualität verbessert. Danach wird ein herkömmliches zeitliches Verschleierungsverfahren integriert, um eine niedrige Bildqualität des Referenzsignals zu kompensieren. Neue Aspekte sind dabei die robuste Wahl des besseren Verschleierungsmodus, eine verbesserte Bewegungsschätzung und die Rekonstruktion des Prädiktionsfehlers unter Verwendung des Referenzsignals. Zuletzt wird die Bildschärfe bereits verschleierter Blöcke erhöht. Dazu werden fehlende Spektralanteile basierend auf frequenzselektiven Approximations- oder Extrapolationsansätzen wiederhergestellt. Durch die Kombination aller relevanten Erweiterungen wird die Rekonstruktionsqualität herkömmlicher Verfahren um bis zu 20 dB übertroffen. Abschließend werden die beschriebenen Fehlerverschleierungsverfahren an ein Szenario für den Mehrfachempfang digitaler Fernsehsignale angepasst, bei dem zwei fehlerhafte hochauflösende Videosignale verfügbar sind. Während die Schätzung der örtlichen Abbildungsparameter entfällt, müssen Bildblöcke, die in keinem der beiden Videosignale korrekt empfangen wurden, durch herkömmliche Verfahren verschleiert werden. Als weitere Neuerung wird ein Verfahren zur Kompensation des Drifteffekts in prädiktiv codierten Bildern vorgeschlagen. Auch bei diesem Empfangsszenario wird eine hohe visuelle Bildqualität erzielt und die Rekonstruktionsqualität herkömmlicher Verfahren um bis zu 15 dB übertroffen.

**Understanding Digital Television** Lars-Ingemar Lundström, 2006 First Published in 2006. Routledge is an imprint of Taylor & Francis, an informa company.

**Handbook of Mobile Broadcasting** Borko Furht, Syed A. Ahson, 2008-04-15 Operators are introducing mobile television and digital video content services globally. The Handbook of Mobile Broadcasting addresses all aspects of these services, providing a comprehensive reference on DVB-H, DMB, ISDB-T, and MediaFLO. Featuring contributions from experts in the field, the text presents technical standards and distribution proto

**Digital Television in Europe** Wendy Van den Broeck, Jo Pierson, 2008

**Digital Television** Herve Benoit, 2002-08-05 First Published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

Digital Front-End in Wireless Communications and Broadcasting Fa-Long Luo, 2011-09-29 Covering everything from signal processing algorithms to integrated circuit design, this complete guide to digital front-end is invaluable for professional engineers and researchers in the fields of signal processing, wireless communication and circuit design. Showing how theory is translated into practical technology, it covers all the relevant standards and gives readers the ideal design methodology to manage a rapidly increasing range of applications. Step-by-step information for designing practical systems is provided, with a systematic presentation of theory, principles, algorithms, standards and implementation. Design trade-offs are also included, as are practical implementation examples from real-world systems. A broad range of topics is covered, including digital pre-distortion (DPD), digital up-conversion (DUC), digital down-conversion (DDC) and DC-offset calibration. Other important areas discussed are peak-to-average power ratio (PAPR) reduction, crest factor reduction (CFR), pulse-shaping, image rejection, digital mixing, delay/gain/imbalance compensation, error correction, noise-shaping, numerical controlled oscillator (NCO) and various diversity methods.

*Video Demystified* Keith Jack, 2004-09-21 This international bestseller and essential reference is the bible for digital video engineers and programmers worldwide. This is by far the most informative analog and digital video reference available, includes the hottest new trends and cutting-edge developments in the field. *Video Demystified, Fourth Edition* is a one stop reference guide for the various digital video technologies. The fourth edition is completely updated with all new chapters on MPEG-4, H.264, SDTV/HDTV, ATSC/DVB, and Streaming Video (Video over DSL, Ethernet, etc.), as well as discussions of the latest standards throughout. The accompanying CD-ROM is updated to include a unique set of video test files in the newest formats. \*This essential reference is the bible for digital video engineers and programmers worldwide \*Contains all new chapters on MPEG-4, H.264, SDTV/HDTV, ATSC/DVB, and Streaming Video \*Completely revised with all the latest and most up-to-date industry standards

*The Digital Dividend of Terrestrial Broadcasting* Roland Beutler, 2011-11-25 The “digital revolution” of the last two decades has pervaded innumerable aspects of our daily lives and changed our planet irreversibly. The shift from analog to digital broadcasting has facilitated a seemingly infinite variety of new applications—audience interactivity being but one example. The greater efficiency and compression of digital media have endowed broadcasters with a “digital dividend” of spare transmission capacity over and above the requirements of terrestrial broadcasting. The question is, who will use it, and how? Comparing the European experience with that of broadcasters elsewhere in the world, the author sketches the current status of international frequency management, quantifies the value of the “dividend” itself, analyzes the details of the analog-to-digital switchovers already completed, and posits what the future holds for the sector. As we grapple with new devices, inconceivable a mere generation ago, that allow us to access digital media instantly, anywhere and at any time of day, this book is a potent reminder that what we have witnessed so far may be just the first wavering steps along a road whose

destination we can only guess at.

Radio Spectrum Management Haim Mazar (Madjar),2016-08-29 This book presents the fundamentals of wireless communications and services, explaining in detail what RF spectrum management is, why it is important, which are the authorities regulating the use of spectrum, and how is it managed and enforced at the international, regional and national levels. The book offers insights to the engineering, regulatory, economic, legal, management policy-making aspects involved. Real-world case studies are presented to depict the various approaches in different countries, and valuable lessons are drawn. The topics are addressed by engineers, advocates and economists employed by national and international spectrum regulators. The book is a tool that will allow the international regional and national regulators to better manage the RF spectrum, and will help operators and suppliers of wireless communications to better understand their regulators.

*Digital Video Broadcasting (DVB)* Ulrich Reimers,2001 Digital Video Broadcasting is the name for a long list of innovative technical systems for television, radio and data broadcasting. In the world of consumer electronics, DVB systems are the most important development worldwide and this contains first hand information about the most recent developments in consumer electronics used in Europe, Australia and Southeast Asia.

**Scheduling in Digital Video Broadcasting Second Generation Terrestrial (DVB-T2) Systems** Reitumetse Nkali Charlotte Khalanyane,2018

Dvb Source Wikipedia,2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 31. Chapters: Digital Video Broadcasting, DVB-T2, DVB-H, Common Interface, DVB 3D-TV, DVB-SH, DVB-S2, DVB-C2, Multimedia Home Platform, DVB-RCT, DVB-RCS, DVB-CPCM, Globally Executable MHP, Common Scrambling Algorithm, BBC Research, Control System Middleware for operator functioning, Data and object Carousel, Radio with Pictures system for use with DVB, Conditional-access module, IP over DVB, DVB-HTML, DVB-IPTV, Generic Stream. Excerpt: DVB-T2 is an abbreviation for Digital Video Broadcasting - Second Generation Terrestrial; it is the extension of the television standard DVB-T, issued by the consortium DVB, devised for the broadcast transmission of digital terrestrial television. This system transmits compressed digital audio, video, and other data in physical layer pipes (PLPs), using OFDM modulation with concatenated channel coding and interleaving. The higher offered bit rate, with respect to its predecessor DVB-T, makes it a suited system for carrying HDTV signals on the terrestrial TV channel (though many broadcasters still use plain DVB-T for this purpose). It is currently broadcasting in UK (Freeview HD, four channels), Italy (Europa 7 HD, twelve channels) and since November 1, 2010 in Sweden (five channels). In March 2006 DVB decided to study options for an upgraded DVB-T standard. In June 2006, a formal study group named TM-T2 (Technical Module on Next Generation DVB-T) was established by the DVB Group to develop an advanced modulation scheme that could be adopted by a second generation digital terrestrial television standard, to be named DVB-T2. According to the commercial requirements

and call for technologies issued in April 2007, the first phase of DVB-T2 would be devoted to provide optimum reception for stationary (fixed) and portable receivers (i.e., units which can be nomadic, but not fully mobile) using...

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