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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



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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

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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

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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

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implemented in the satellite, cable and terrestrial radio transmission media.

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Watkinson is an independent consultant in digital video, audio and data technology. He is a Fellow of the AES and presents lectures, conference papers and training courses worldwide. he is the author of numerous other Focal Press books, including:  
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Broadcast television

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began in Japan in 1953. Since then the presence of television has continued to grow and TV broadcasts are the most familiar source of information for most people. This book compiles the fundamentals of digital broadcast, which has developed since the advent of

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