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Digital Audio Broadcasting; Contents; Foreword; Preface; List of contributors; Abbreviations; 1 Introduction; 1.1 General; 1.2 Radio in the Digital Age; 1.3 Benefits of the Eureka 147 DAB System; 1.4 History of the Origins of DAB; 1.5 International Standardisation; 1.6 Relations to Other Digital Broadcasting Systems; 2 System Concept; 2.1 The Physical Channel; 2.2 The DAB Transmission System; 2.3 The DAB Multiplex; 2.4 Conditional Access; 2.5 Service Information; 3 Audio Services and Applications; 3.1 General; 3.2 Audio Coding; 3.3 Characteristics and Features of MPEG-1 Layer II for DAB; 3.4 Programme-associated Data; 3.5 Advanced Audio Applications Using MPEG-2 Features; 3.6 Quality of Service; 3.7 Error Protection and Concealment; 3.8 A Typical DAB Ensemble; 3.9 Audio Levels; 4 Data Services and Applications; 4.1 General; 4.2 Data Service Signalling; 4.3 Multimedia Applications with MOT; 4.4 Standardised MOT User Application; 4.5 "Mobil-Info" as an Example of a Proprietary MOT User Application; 4.6 Textual PAD Services; 4.7 Traffic Information Services and Navigation Aids; 4.8 Moving Picture Services; 4.9 Other Data Transmission Mechanism; 5 Provision of Services; 5.1 The DAB Service Landscape; 5.2 Use of Existing Infrastructures; 5.3 Need for New Infrastructure; 5.4 Relationship between DAB Data Services and RDS; 5.5 Electronic Programme Guide (EPG) for DAB; 5.6 Possible New Audio Services; 6 Collection and Distribution Networks; 6.1 General; 6.2 The Collection Network; 6.3 The Distribution Network; 6.4 Example of Implementation; 7 The Broadcast Side; 7.1 General; 7.2 Radio Frequency Propagation Aspects; 7.3 Introduction to DAB Networks; 7.4 Particularities of Single frequency networks (SFN); 7.5 DAB Transmitters; 7.6 Coverage Planning; 7.7 Coverage Evaluation and Monitoring of SFNs; 7.8 Frequency Management; 8 The Receiving Side; 8.1 General; 8.2 RF Front-end; 8.3 Digital Baseband Processing; 8.4 Audio Decoder; 8.5 Interfaces; 8.6 Integrated Circuits for DAB; 8.7 Receiver Overview; 8.8 Operating a DAB Receiver - the Human-Machine Interface; Appendices; Appendix 1: DAB Parameters for Modes I, II, III and IV; Appendix 2: Digital Radio (DAB): Status of Introduction World-wide; Appendix 3: Frequencies for Terrestrial and Satellite DAB Transmission; Bibliography; Standards and Related Documents; Publications; Further Reading; Internet Links; Index

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Sommario/riassunto

Now the standardisation work of DAB (Digital Audio Broadcasting) system is finished many broadcast organisations, network providers and receiver manufacturers in European countries and outside of Europe (for example Canada and the Far East) will be installing DAB broadcast services as pilot projects or public services. In addition some value added services (data and video services) are under development or have already started as pilot projects. The new digital broadcast system DAB distinguishes itself from existing conventional broadcast systems, and the various new international standards

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