

# Isdb-T: A Handbook for Broadcast Engineers (Paperback)

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## ISDB-T: A HANDBOOK FOR BROADCAST ENGINEERS (PAPERBACK)



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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This is the first English handbook devoted to Integrated Services Digital Broadcasting-Terrestrial (ISDB-T), one of the most widely used terrestrial television broadcasting standards originally developed in Japan. This book has been planned and carefully designed to provide an essential overview, and detailed specific information, on every technical element of the ISDB-T system and is organized into four parts. The following are the parts: The core technology elements of an ISDB-T system, including Orthogonal Frequency Division Multiplexing (OFDM), hierarchical transmission, error correction, multiplexing, Moving Pictures Experts Group (MPEG) video/audio coding, and datacasting. It also covers some principles and fundamental technologies that are common to the digital terrestrial broadcast systems. Basic receiver types, overall receiver structure, RF synchronization techniques and fixed/mobile reception technology. For mobile reception, the focus is on the One-Seg narrow band reception technology. A number of key issues in the deployment of broadcast networks, such as contents delivery network design, Signal Frequency Network (SFN) design, signal quality measurement of ISDB-T RadioFrequency (RF) signal and Emergency Warning Broadcast Topics associated with regulatory matters including frequency allocation and channel planning This book contains several real-world examples, including parameter setting in data-rate calculation, SFN or infrastructure deployment with detailed explanation on Japanese Association of Radio Industries and Business (ARIB) and Brazilian Associacao Brasileira de Normas Tecnicas (ABNT) standard. This book will be of considerable use to the broadcast operator, product design engineers, and engineering students in understanding the capabilities and limitations of the ISDB-T system.

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