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The SBE Broadcast Engineering Handbook: A Hands-on Guide To Station Design And Maintenance



Synopsis

Up-To-Date Broadcast Engineering EssentialsÂ This encyclopedic resource offers complete coverage of the latest broadcasting practices and technologies. Written by a team of recognized experts in the field, the SBE Broadcast Engineering Handbook thoroughly explains radio and television transmission systems, DTV transport, information technology systems for broadcast applications, production systems, facility design, broadcast management, and regulatory issues. In addition, valuable, easy-to-use appendices are included with extensive reference data and tables. The SBE Broadcast Engineering Handbook is a hands-on guide to broadcast station design and maintenance.Â SBE Broadcast Engineering Handbook covers:Â Â Â Â Â Â Â Â Regulatory Requirements and Related IssuesÂ Â Â Â Â Â Â Â AM, FM, and TV Transmitters, Transmission Lines, and Antenna SystemsÂ Â Â Â Â Â Â Â DTV Transmission Systems, Coverage, and MeasurementÂ Â Â Â Â Â Â Â MPEG-2 TransportÂ Â Â Â Â Â Â Â Program and System Information Protocol (PSIP)Â Â Â Â Â Â Â Â Information Technology for Broadcast PlantsÂ Â Â Â Â Â Â Â Production Facility DesignÂ Â Â Â Â Â Â Â Audio and Video Monitoring SystemsÂ Â Â Â Â Â Â Â Master Control and Centralized FacilitiesÂ Â Â Â Â Â Â Â Asset ManagementÂ Â Â Â Â Â Â Â Production Intercom SystemsÂ Â Â Â Â Â Â Â Production Lighting SystemsÂ Â Â Â Â Â Â Â Broadcast Facility DesignÂ Â Â Â Â Â Â Â Transmission System MaintenanceÂ Â Â Â Â Â Â Â Broadcast Management and Leadership

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Customer Reviews

Wow, this handbook came as a pleasant surprise. This 2016 first edition of the SBE Broadcast Engineering Handbook is pretty impressive; it fulfills its claimed purpose of a "hands on guide" for broadcast station design and maintenance. The contributing authors read like a Who's Who in the broadcast engineering field, and the editor-in-chief is Jerry Whitaker, VP of Standards Development for the Advanced Television Systems Committee (ATSC), former SBE President, SBE Fellow, and author of more than thirty books on technical topics. The SBE Broadcast Engineering Handbook contains cutting edge information on virtually every aspect of broadcast station design and operations, both radio and TV, including the now proposed ATSC 3.0. My favorite chapter was Chapter 5.11 on electronic news gathering (ENG) systems using cellular frequencies (aka bonded ENG), as opposed to Broadcast Auxiliary Service (BAS) frequencies. I forgive the author of that chapter for his dig about "dated" point-to-point microwave technology, because for truly major news events (e.g., Katrina, or out here in California, earthquakes), you had better not be relying on the continued availability of terrestrial commercial mobile radio service (CMRS) phones; only Mobile Satellite Service (MSS) handsets and BAS gear at hardened broadcast sites are likely to still be working during such scenarios. But I digress. Like the NAB Engineering Handbook, all of the figures are black & white. However, the most recent edition of the NAB Engineering Handbook is the tenth edition dating from 2007, whereas the SBE Broadcast Engineering Handbook has the advantage of addressing advances in broadcast engineering in the succeeding nine years.

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