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Sinopsis

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Going beyond the technological building blocks of 3DTV, 3D Television (3DTV) Technology, Systems, and Deployment: Rolling Out the Infrastructure for Next-Generation Entertainment offers an early view of the deployment and rollout strategies of this emerging technology. It covers cutting-edge advances, theories, and techniques in end-to-end 3DTV systems to provide a system-level view of the topic and what it takes to make this concept a commercial reality.

The book reflects the full-range of questions being posed about post-production 3D mastering, delivery options, and home screens. It reviews fundamental visual concepts supporting stereographic perception of 3DTV and considers the various stages of a 3DTV system including capture, representation, coding, transmission, and display.

Presents new advances in 3DTV and display techniques

Includes a 24-page color insert

Identifies standardization activities critical to broad deployment

Examines a different stage of an end-to-end 3DTV system in each chapter

Considers the technical details related to 3DTV_including compression and transmission technologies

Discussing theory and application, the text covers both stereoscopic and autostereoscopic techniques_the latter eliminating the need for special glasses and allowing for viewer movement. It also examines emerging holographic approaches, which have the potential to provide the truest three-dimensional images. The book contains the results of a survey of a number of advocacy groups to provide a clear picture of the current state of the industry, research trends, future directions, and underlying topics.