



Next Generation Mobile Broadcasting

David Gómez-Barquero

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Next Generation Mobile Broadcasting provides an overview of the past, present, and future of mobile multimedia broadcasting. The first part of the book *Mobile Broadcasting Worldwide* summarizes next-generation mobile broadcasting technologies currently available. This part covers the evolutions of the Japanese mobile broadcasting standard ISDB-T One-Seg, ISDB-Tmm and ISDB-TSB; the evolution of the South Korean T-DMB mobile broadcasting technology AT-DMB; the American mobile broadcasting standard ATSC-M/H; the Chinese broadcasting technologies DTMB and CMMB; second-generation digital terrestrial TV European standard DVB-T2 and its mobile profile T2-Lite; and the multicast/broadcast extension of 4G LTE cellular standard E-MBMS.

This part includes a chapter about a common broadcast specification of state-of-the-art 3GPP and DVB standards to provide a broadcast overlay optimized for mobile and operated in conjunction with a broadband unicast access. It also contains an overview chapter on a new High-Efficiency Video Coding (HEVC) standard that is expected to provide significantly improved coding efficiency compared to current MPEG-4 AVC video coding.

The second part of the book *Next-Generation Handheld DVB Technology: DVB-NGH* describes the latest mobile broadcast technology known as Digital Video Broadcasting-Next-Generation Handheld (DVB-NGH), which is expected to significantly outperform all existing technologies in both capacity and coverage. DVB-NGH introduces new technological solutions that along with the high performance of DVB-T2 make DVB-NGH a powerful next-generation mobile multimedia broadcasting technology.

In fact, DVB-NGH can be regarded as the first 3G broadcasting system because it allows for the possibility of using multiple input multiple output MIMO antenna schemes to overcome the Shannon limit of single antenna wireless communications. DVB-NGH also allows the deployment of an optional satellite component forming a hybrid terrestrial-satellite network topology to improve coverage in rural areas where the installation of terrestrial networks is economically unfeasible. Although the commercial deployment of DVB-NGH is nowadays unclear after its standardization, it will be a reference point for future generations of digital terrestrial television technologies.

Edited by a member of the DVB-NGH standardization group, the book includes contributions from a number of standardization groups worldwide including Digital Video Broadcasting (DVB) in Europe; Advanced Television Systems Committee (ATSC) in the US, Korea, Japan, and China; Third Generation Partnership Project (3GPP); and the Moving Picture Experts Group (MPEG).

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