The MPEG Handbook

By John Watkinson

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A complete, professional 'bible' on all aspects of audio and video compression using MPEG technology, including the MPEG-4 standard and, in this second edition, H-264. The clarity of explanation and depth of technical detail combine to make this book an essential and definitive reference work.

THE MPEG HANDBOOK is both a theoretical and practical treatment of the subject. Fundamental knowledge is provided alongside practical guidance on how to avoid pitfalls and poor quality. The often-neglected issues of reconstructing the signal timebase at the decoder and of synchronizing the signals in a multiplex are treated fully here.

Previously titled MPEG-2, the book is frequently revised to cover the latest applications of the technology.

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The MPEG Handbook By John Watkinson Bibliography

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Editorial Review

Review
"As with all John Watkinson books, the present one is a classic example of an excellent engineering textbook. It deserves to be on the bookshelf of every broadcaster involved in new coding technologies." - EBU Technical Review

Reviews of the Previous Edition:
"No book can claim to be a definitive book on a given technology. Technologies develop too fast. This book, however, deserves to be acclaimed as the definitive book on general MPEG aspects." The EBU Technical Review

"...a thorough and very lucid introduction to audio and video compression. Through the use of simple, clear diagrams and some of the clearest technical writing I have come across, Watkinson makes the whole process look remarkably straightforward...an absorbing read for the curious, and a useful source of hard information for those with a professional interest."
Electronics Australia

From the Publisher
Previously titled MPEG2, the book has now been extensively revised to cover the all the latest standards, including a description of the MPEG4 standard and the latest applications of the technology, such as the delivery of compressed audio, video, graphics and interactive capability over the internet and broadband networks. It gives a comprehensive treatment of significant extensions made available by MPEG4, such as object coding, mesh coding and animation.

About the Author
John Watkinson is an independent international consultant in advanced applications of electronics to audiovisual and avionics systems. He is a Fellow of the AES, a member of the Society of Expert Witnesses, and the British Computer Society and is a chartered information systems practitioner. He presents lectures, seminars and training courses worldwide. He is the author of many other Elsevier books, including The Art of DigitalVideo, An Introduction to Digital Video, Convergence in Broadcast and Communications Media, Television Fundamentals and The Art of the Helicopter.

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