Digital Compression for Multimedia: Principles and Standards (The Morgan Kaufmann Series in Multimedia Information and Systems)

By Jerry D. Gibson, Toby Berger, Tom Lookabaugh, Rich Baker, David Lindbergh

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Drawing on their experience in industry, research, and academia, this powerful author team combines their expertise to provide an accessible guide to data compression standards and techniques and their applications. The essential ideas and motivation behind the various compression methods are presented, and insight is provided into the evolution of the standards. Standards-compliant design alternatives are discussed, and some noncompliant designs also are treated.

Covering the fundamental underpinnings of the most widely used compression methods, this book is intended for engineers and computer scientists designing, manufacturing, and implementing compression systems, as well as system integrators, technical managers, and researchers. It provides, in a single source, an overview of the current standards for speech, audio, video, image, fax, and file compression.

- Authored by five experts from industry and academia who are heavily involved in research, development, and standards-setting activities
- Covers the full spectrum of multimedia compression standards including those for lossless data compression, speech coding, high-quality audio coding, still image compression, facsimile, and video compression
- Provides enough theory for you to understand the building blocks of the compression systems discussed, with appendices containing necessary algorithmic details and mathematical foundations

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Editorial Review

Amazon.com Review
Effective digital compression--whether image, voice, or video data--is an essential part of telecommunications and the Internet. *Digital Compression for Multimedia: Principles & Standards* is a one-volume guide to the theory and standards behind today's digital compression. Written as a textbook and including plenty of mathematical expertise, this book is appropriate for a college course or as a reference for expert designers who are using the latest in digital compression.

The authors define data compression and its mathematical foundations and include performance measures of how effective a given compression scheme is. Illustrations from the world of file compression (using Huffman coding, a popular compression scheme) escort readers through basic compression methods. The book also introduces other techniques, such as quantization and predictive coding, and explains today's voice-coding standards.

The latter half of the book does an excellent job of explaining popular standards for compressing data, such as the JPEG standard for images and the MPEG-1 and MPEG-2 standards for video compression. (The authors are on top of new developments, such as emerging standards for multimedia video conferencing and video compression.) Useful appendices outline the important algorithms for compression, and an in-depth bibliography lists sources for research in compression. These features make this book a definitive guide for those who need to know the latest in digital compression technology. *--Richard V. Dragan*

From the Back Cover

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About the Author
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Jose Holmes:

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book reveal it data accurately using great plan word or we can declare no rambling sentences in it. So if you are read it hurriedly you can have whole info in it. Doesn't mean it only will give you straight forward sentences but challenging core information with lovely delivering sentences. Having Digital Compression for Multimedia: Principles and Standards (The Morgan Kaufmann Series in Multimedia Information and Systems) in your hand like keeping the world in your arm, data in it is not ridiculous one particular. We can say that no reserve that offer you world within ten or fifteen tiny right but this book already do that. So , this really is good reading book. Hey there Mr. and Mrs. active do you still doubt that?

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