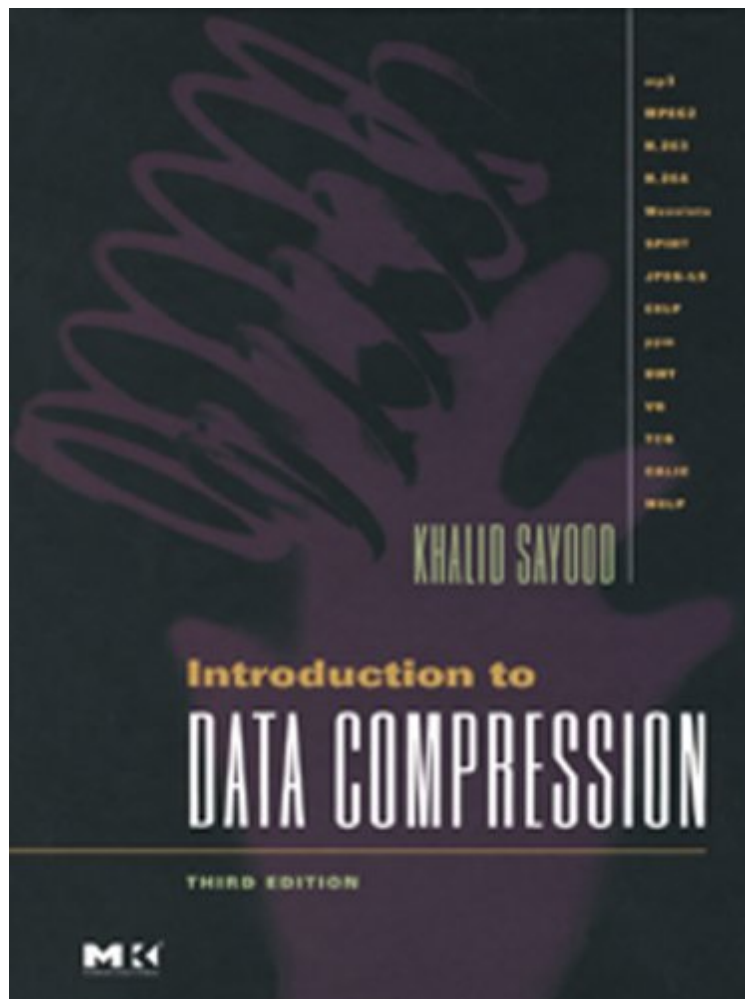


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## Introduction to Data Compression (The Morgan Kaufmann Series in Multimedia Information and Systems)

Von Khalid Sayood

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**Von Khalid Sayood : Introduction to Data Compression (The Morgan Kaufmann Series in Multimedia Information and Systems)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Introduction to Data Compression (The Morgan Kaufmann Series in Multimedia Information and Systems):

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Probably the best book about data compressionVon M. SchuhA really excellent book on data compression. Very detailed but precise descriptions of various data compression algorithms and techniques. I don't find it too math heavy - it only contains part of the theorem proofs - which are marked as optional reading for non-interested users. You could skip them, but I find them really understandable. For further reading and all the complete proofs the according papers and

books are referenced. Helped me a lot in my academic coursework.

**Kurzbeschreibung** Introduction to Data Compression, Third Edition, is a concise and comprehensive guide to data compression. This book introduces the reader to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts. Encompassing the entire field of data compression, it covers lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. It includes all the cutting edge updates the reader will need during the work day and in class. This edition adds new content on the topic of audio compression including a description of the mp3 algorithm, along with a new video coding standard and new facsimile standard explained. It explains in detail established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, Group 3 and 4 faxes, JBIG 2, ADPCM, LPC, CELP, and MELP. Source code is provided via a companion web site that gives readers the opportunity to build their own algorithms, choose and implement techniques in their own applications. This book will appeal to professionals, software and hardware engineers, students, and to anyone interested in digital libraries and multimedia.

**\*New content added on the topic of audio compression including a description of the mp3 algorithm**

**\*New video coding standard and new facsimile standard explained**

**\*Completely explains established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, Group 3 and 4 faxes, JBIG 2, ADPCM, LPC, CELP, and MELP**

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**Synopsis** Each edition of "Introduction to Data Compression" has widely been considered the best introduction and reference text on the art and science of data compression, and the third edition continues in this tradition. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio, and video. The third edition includes all the cutting edge updates the reader will need during the work day and in class. Khalid Sayood provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts. Encompassing the entire field of data compression, "Introduction to Data Compression" includes lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. Khalid Sayood provides a working knowledge of data compression, giving the reader the tools to develop a complete and concise compression package upon completion of his book. New content is added on the topic of audio compression including a description of the mp3 algorithm. New video coding standard and new facsimile standard is explained. It completely explains established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, Group 3 and 4 faxes, JBIG 2, ADPCM, LPC, CELP, and MELP. Source code is provided via companion web site that gives readers the opportunity to build their own algorithms, choose and implement techniques in their own applications.