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EDITION



ENGINEERING DATA BOOK

# Gpsa Engineering Data Compression Technology Sourcing

**David Salomon**



## **Gpsa Engineering Data Compression Technology Sourcing:**

*Data Compression* Lee D. Davisson, Robert M. Gray, 1976-07-01      **Introduction to Data Compression** Khalid Sayood, 2017-10-23 Introduction to Data Compression Fifth Edition builds on the success of what is widely considered the best introduction and reference text on the art and science of data compression Data compression techniques and technology are ever evolving with new applications in image speech text audio and video This new edition includes all the latest developments in the field 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 the book includes lossless and lossy compression Huffman coding arithmetic coding dictionary techniques context based compression and scalar and vector quantization The book provides a comprehensive working knowledge of data compression giving the reader the tools to develop a complete and concise compression package Explains established and emerging standards in depth including JPEG 2000 JPEG LS MPEG 2 H 264 JBIG 2 ADPCM LPC CELP MELP iLBC and the new HEVC standard Includes more coverage of lattices in vector quantization Contains improved and expanded end of chapter problems Source code is provided via a companion website that gives readers the opportunity to build their own algorithms and choose and implement techniques in their own applications      *Foundations for Data Compression* William K. Chan, 1989      **Data Compression Book** Mark Nelson, Gally Jean, 1996      *Data Compression* Gilbert Held, 1991      *Data Compression--a Comparison of Methods* Jules Aronson, 1977      *Data Compression* Gilbert Held, Thomas R. Marshall, 1993      *The Data Compression Book* Mark Nelson, 1991      **A Concise Introduction to Data Compression** David Salomon, 2006      [The Optimization of Data Compression Algorithms](#) Wang-Rei Tang, 2000

**Fundamental Data Compression** Ida Mengyi Pu, 2006-01 An accessible introduction to data compression packed with practical excercises projects and more      **Introduction to Data Compression Standards** Nicholas Beser, 1996-05-01

**Data Compression** David Salomon, 2006-05-09 Data compression is one of the most important fields and tools in modern computing From archiving data to CD ROMs and from coding theory to image analysis many facets of modern computing rely upon data compression Data Compression provides a comprehensive reference for the many different types and methods of compression Included are a detailed and helpful taxonomy analysis of most common methods and discussions on the use and comparative benefits of methods and description of how to use them The presentation is organized into the main branches of the field of data compression run length encoding statistical methods dictionary based methods image compression audio compression and video compression Detailed descriptions and explanations of the most well known and frequently used compression methods are covered in a self contained fashion with an accessible style and technical level for specialists and nonspecialists Topics and features coverage of video compression including MPEG 1 and H 261 thorough coverage of wavelets methods including CWT DWT EZW and the new Lifting Scheme technique complete audio compression QM coder

used in JPEG and JBIG including new JPEG 200 standard image transformations and detailed coverage of discrete cosine transform and Haar transform coverage of EIDAC method for compressing simple images prefix image compression ACB and FHM curve compression geometric compression and edgebreaker technique Data Compression provides an invaluable reference and guide for all computer scientists computer engineers electrical engineers signal image processing engineers and other scientists needing a comprehensive compilation for a broad range of compression methods *Data Compression* Gilbert Held, Thomas R. Marshall, 1991 **Data Compression** James Andrew Storer, 1988 **Data Compression Techniques and Applications** Thomas J. Lynch, 1985 There is a growing interest in applying data compression techniques to actual data and communication systems in the commercial military and government agency sectors In each potential application there is a need to learn what compression techniques are available how they operate and what the implementation considerations are for each technique This book provides this information and serves as a reference for practicing communication engineers computer scientists information scientists and data systems managers No experience in data compression is necessary to use this book each compression technique is described separately and fully and the theoretical background developed so outside references are not needed **Space and Earth Science Data Compression Workshop**, 1993 [Applying Data Compression Algorithms in Software Engineering](#) Alexander Gorovoy, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fakultah le-mad'e ha-mahshev, 2000 **Hardware Based Data Compression System Using Sliding Dictionary Algorithm** Hemant L. Nerurkar, 1987 **A Guide to Data Compression Methods** David Salomon, 2014-01-15

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