

# DATA COMPRESSION IN DIGITAL SYSTEMS

This easy-to-read, invaluable reference presents a unique blend of introductory material on what data compression is and how it operates, combined with an in-depth look at how data compression is used in real-world applications. In addition, it offers practical guidance for future technology development.

**Data Compression In Digital Systems** provides a quick and accessible route to understanding key information and concepts with the use of over 100 figures and tables. The book is arranged into four sections, beginning with an introduction to the user requirements for data

compression and the marketplace constraints and rules that affect its application. A thorough explanation of the most important algorithms for text, speech, audio, image, and video data is provided in the next section. For each type of data, the reader is given the information needed to understand how data compression algorithms work. The following section is a comprehensive guide to the use of data compression in the computer, communications, consumer-electronics, publishing, entertainment, and healthcare industries. It also describes how influential and crucial past applications and data compression technology are to current and future efforts. The book closes with the decisions and techniques used for incorporating data compression in current and future digital systems.

Beginning with early history and continuing to leading-edge applications and technology of data compression, this comprehensive account will enlighten a diverse audience. Information system managers, product and market analysts, and consultants who need to become acquainted with data compression technology and understand how it is changing the world of digital systems will gain valuable knowledge from the text. In addition, the book provides system designers, developers, engineers, programmers, and scientists with the knowledge needed to apply data compression in applications and products.

## ABOUT THE AUTHOR

**Roy Hoffman** recently retired as a Senior Technical Staff Member and a member of the IBM Academy of Technology, from IBM in Rochester, Minnesota. As the leader of an Academy study of data compression and an architect of mid-range business computers, he has a diverse background with data compression and its application to digital systems.



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# Data Compression In Digital Systems

**RS Peters**



## **Data Compression In Digital Systems:**

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