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written by William A.

Pearlman, Amir Said:

With clear and easy-to-  
understand

explanations, this book  
covers the

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Amir Said) Solution  
Manual Communication  
Networks : An  
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Networks Perspective  
(R. Srikant, Lei Ying)

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Digital signal  
processing (DSP) has  
been applied to a very  
wide range of  
applications. This

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includes voice processing, image processing, digital communications, the transfer of data over the internet, image and data compression, etc. Engineers who develop DSP applications today, and in the future, will need to address many implementation issues including mapping algorithms to computational ...



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I A. Gersho and R.M. Gray, "Vector Quantization and Signal Compression," Kluwer Academic Press, 1992. Principles and algorithms for digital source coding, with applications to images, speech, and audio. The most comprehensive and substantial source coding reference, but

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very readable  
nevertheless. State-of-  
the-art.

### **Image and Video Compression**

Abstract. This chapter  
introduces concepts of  
digital signal  
processing (DSP) and  
reviews an overall  
picture of its  
applications.

Illustrative application  
examples include  
digital noise filtering,  
signal frequency

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analysis, speech coding and compression, biomedical signal processing such as interference cancellation in electrocardiograph, compact-disc recording, and image enhancement.

## **Digital Signal Processing | ScienceDirect**

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Fundamentals and Applications, Third Edition, not only introduces students to the fundamental principles of DSP, it also provides a working knowledge that they take with them into their engineering careers. Many instructive, worked examples are used to illustrate the material, and the use of mathematics is minimized for an easier

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grasp of concepts.

**Digital Signal  
Processing - 3rd  
Edition**

Image Compression  
Books. The following  
books contain tutorials  
on SPIHT. Digital Signal  
Compression:

Principles and Practice,  
William A. Pearlman  
and Amir Said,  
Cambridge University  
Press, 2011. Please also  
take note of the  
corrections in the

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errata document. This book is a textbook on signal compression suitable for advanced undergraduates and graduate students and for practitioners in the field.

## **Image Compression Papers - SPIHT**

Compression is performed by minimizing these switching functions using ESPRESSO, a cube-based two-level

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logic minimizer. To reduce the bits required to encode the minimized cubes (product terms), a code set which satisfies the prefix property is used. If this technique fails to produce compression for a window, the pixels are stored as such.

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