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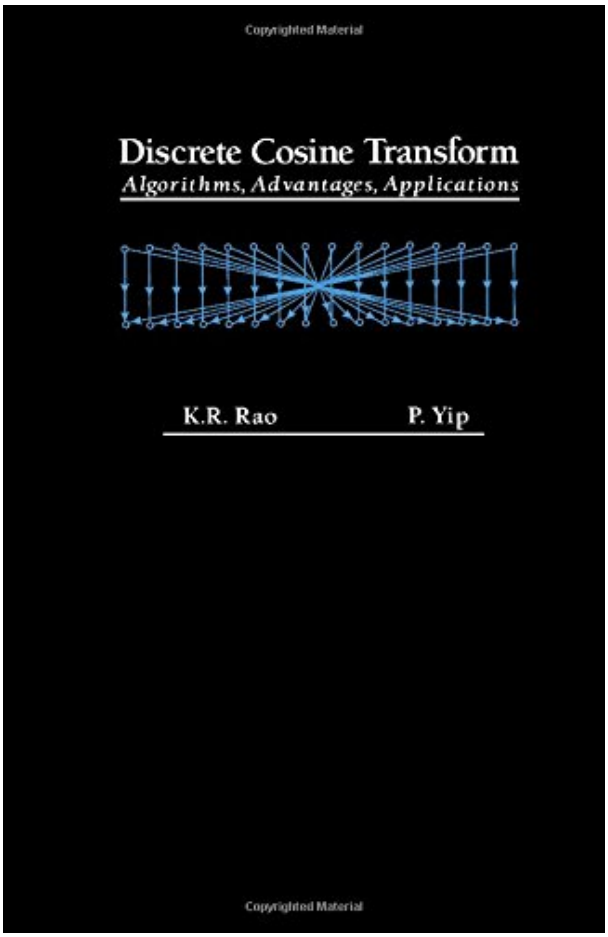

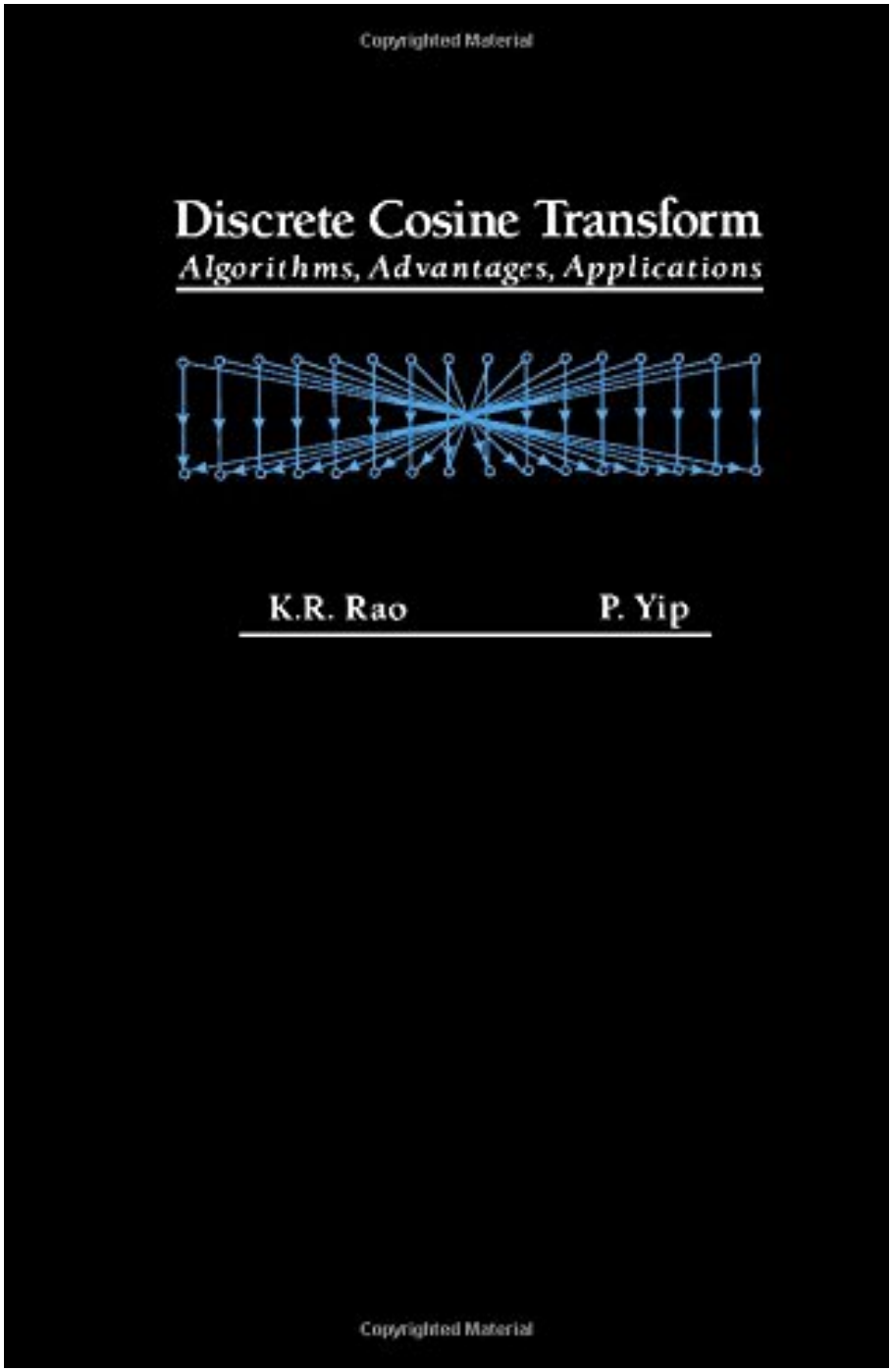

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This is the first comprehensive treatment of the theoretical aspects of the discrete cosine transform (DCT), which is being recommended by various standards organizations, such as the CCITT, ISO etc., as the primary compression tool in digital image coding. The main purpose of the book is to provide a complete source for the user of this signal processing tool, where both the basics and the applications are detailed. An extensive bibliography covers both the theory and applications of the DCT. The novice will find the book useful in its self-contained treatment of the theory of the DCT, the detailed description of various algorithms supported by computer programs and the range of possible applications, including codecs used for teleconferencing, videophone, progressive image transmission, and broadcast TV. The more advanced user will appreciate the extensive references. Tables describing ASIC VLSI chips for implementing DCT, and motion estimation and details on image compression boards are also provided.

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- Dimensions: 9.02" h x 1.13" w x 5.98" l, 2.10 pounds
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3 of 3 people found the following review helpful.
Good reference, but not a good teaching book
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This book is a good reference for the Discrete Cosine Transform. The mathematics is only moderately difficult, and should provide little difficulty for a talented engineer graduate, say.

And yet I can't give this book a great review. It's all rather clinical, with little attempt to provide overview or insight. One just doesn't come away terribly enlightened.

The main reason provided as to why the DCT might be better than the DFT in some instances is that it is a more compact encoder of Markov sequences. Great, but what does this mean in practise? Well, the authors give many applications, but they are dealt with briefly, with little insight, and in a encyclopedic manner.

Better would have been a few simple applications, done in more detail, where the authors made crystal clear why the DCT is the tool for the job.

I was hoping to come away with an in-depth understanding as to the properties of the DCT, where it's best applied, and why. I was disappointed.

8 of 9 people found the following review helpful.
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