

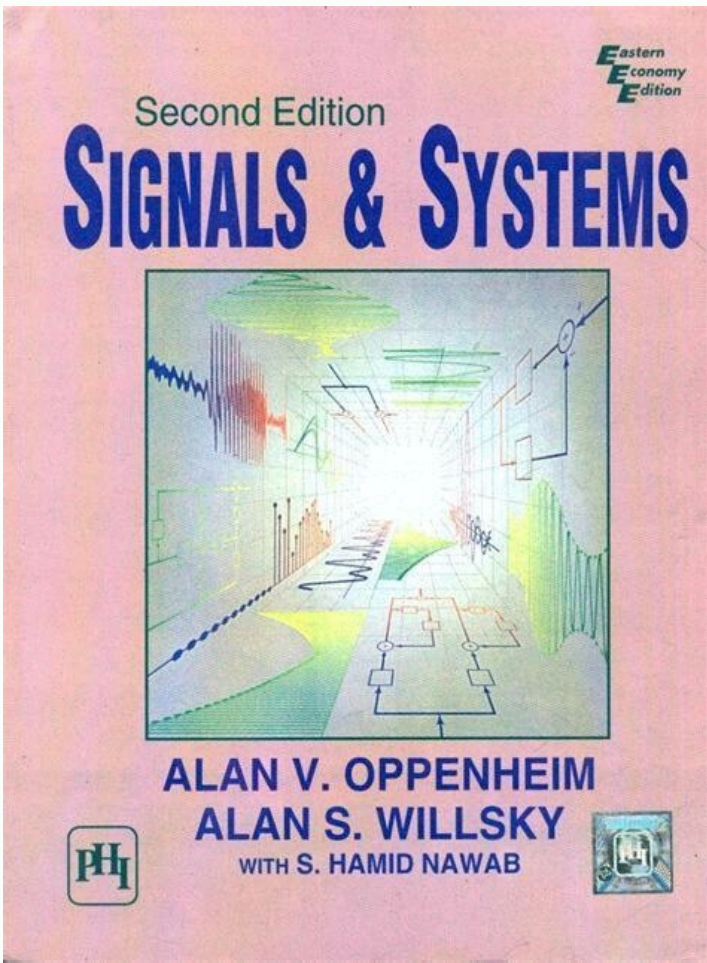
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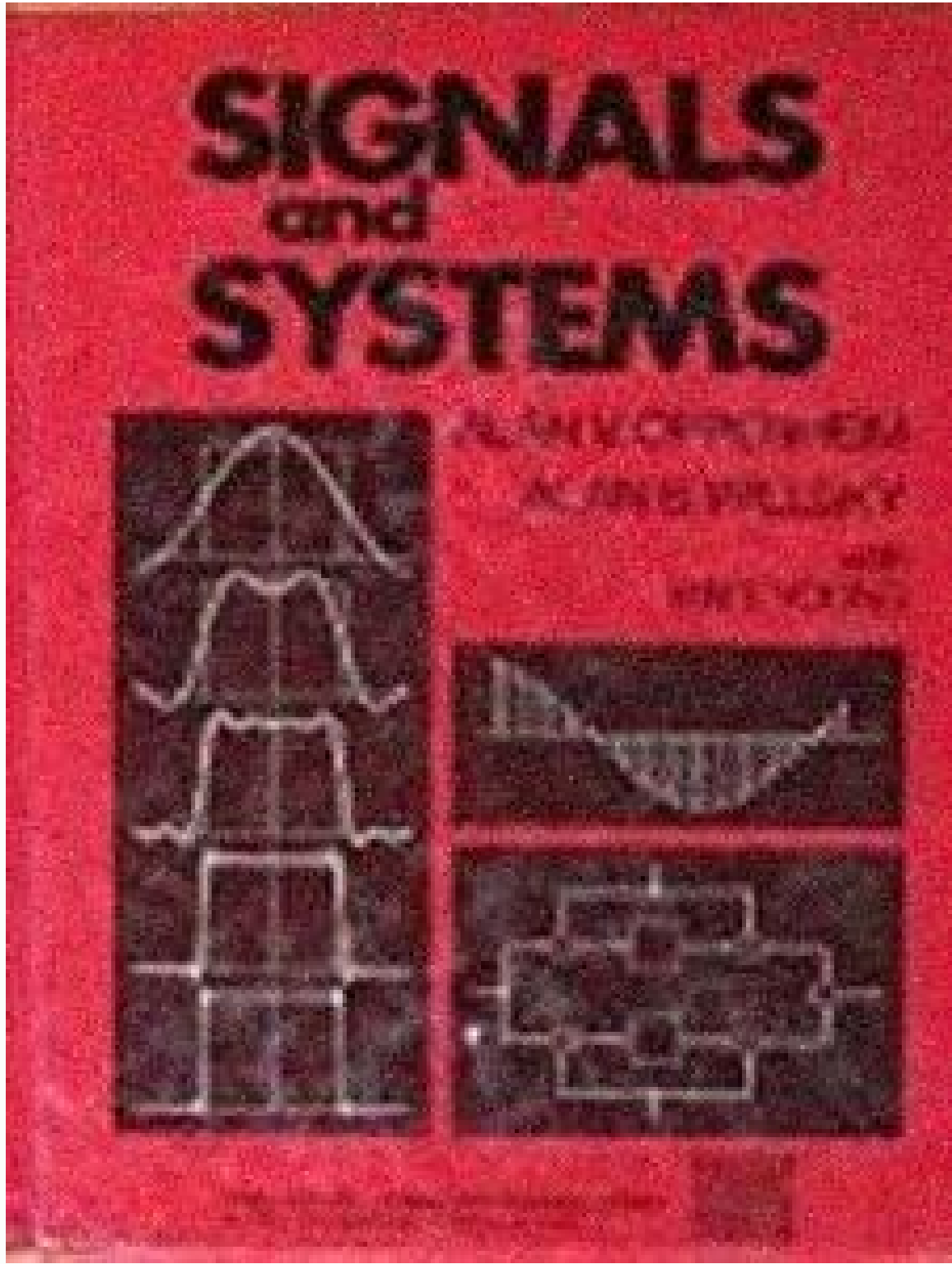
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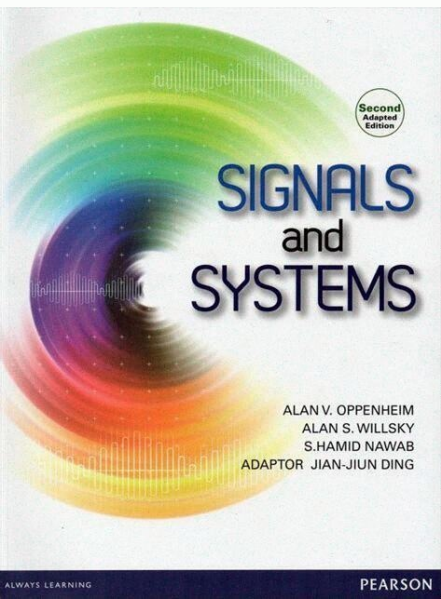
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Ch. 9 on the Laplace Transform and Ch. 10 on the Z-transform deal with the two domains separately, but often draw parallels between results in the two domains. Introduces some of the important uses of the basic methods that are developed – e.g., filtering, communication, sampling, discrete-time processing of continuous-time signals, and feedback. NEW—A companion book contains MATLAB-based computer exercises for each topic. NEW—Material on Fourier analysis has been reorganized significantly to provide an easier path for the reader to master and appreciate the importance of this topic. Now represented in four chapters, each of which is far more streamlined and focused, introducing a smaller and more cohesive set of topics.

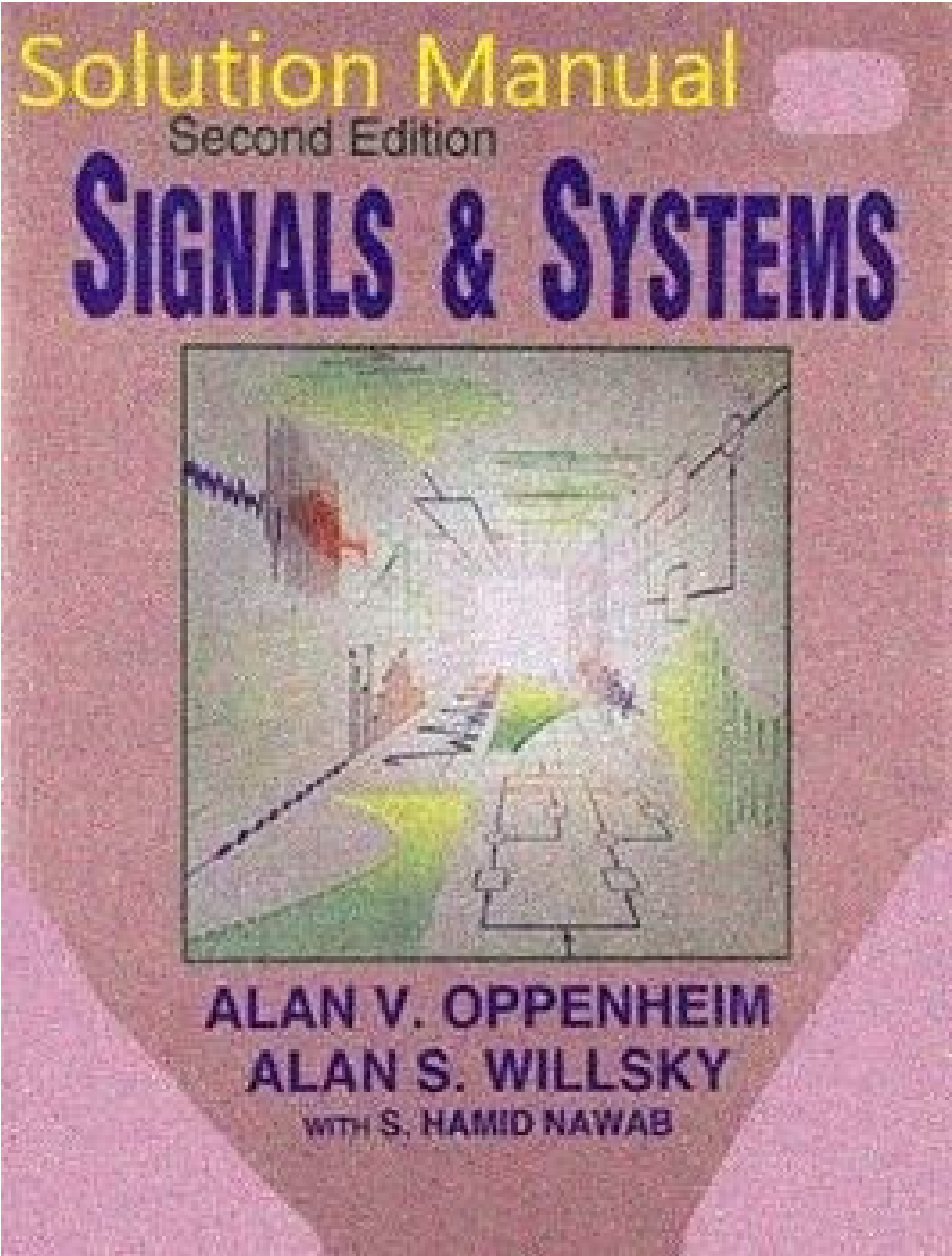


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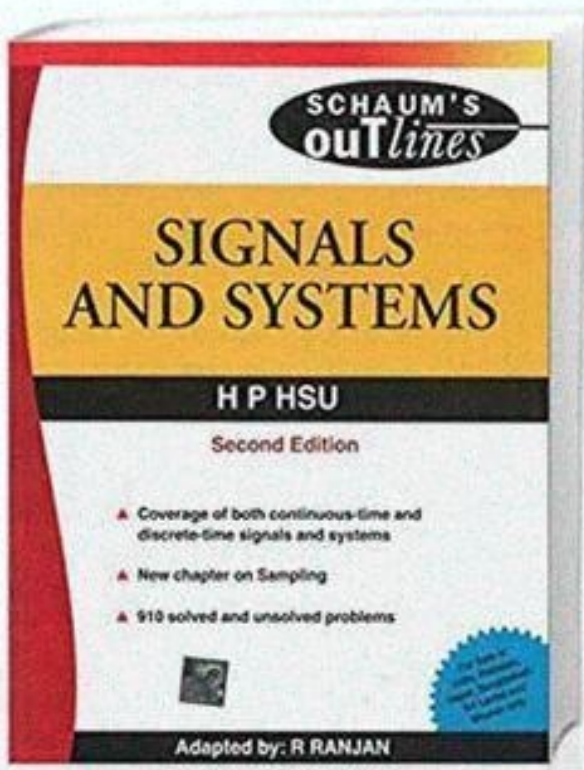


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NEW--Relocates coverage of Sampling before Communication. * Allows for discussion of important forms of communication, namely those involving discrete or digital signals, in which sampling concepts are intimately involved. NEW--Chapter-end Problems They provide a better balance between exercises developing basic skills and understanding ones that pursue more advanced problem-solving skills. The new edition organizes chapter-end problems into four types of sections which makes it easier for the reader to locate the problems that will best serve their purposes; and provides two types of basic problems, ones with answers (but not solutions); and ones with solutions to provide immediate feedback, while attempting to master the material. The four types of chapter-end problems are-- Basic Problems with Answers. Basic Problems. Advanced Problems. Extension Problems. Select all / Deselect all Pedagogically rich introduction to signals and systems using historical notes, pointing out "common mistakes", and relating concepts to realistic examples throughout to motivate learning the material Introduces both continuous and discrete systems early, then studies each (separately) in more depth later Extensive set of worked examples and homework assignments, with applications to controls, communications, and signal processing throughout Provides review of all the background math necessary to study the subject MatLab applications in every chapter