

# Van Trees Detection Estimation Solution Manual

Detection, Estimation and Modulation Theory : Solutions Manual for Selected Problems to Detection Estimation and Modulation Theory, Part I  
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originally published in 1968 Harry Van Trees's *Detection, Estimation, and Modulation Theory, Part I* is one of the great time-tested classics in the field of signal processing. Highly readable and practically organized, it is as imperative today for professionals, researchers, and students in optimum signal processing as it was over thirty years ago. The second edition is a thorough revision and expansion, almost doubling the size of the first edition and accounting for the new developments, thus making it again the most comprehensive and up-to-date treatment of the subject with a wide range of applications such as radar, sonar, communications, seismology, biomedical engineering, and radar astronomy. Among others, the important field of detection and estimation has rarely been given such expert treatment as it is here. Each chapter includes section summaries, realistic examples, and a large number of challenging problems that provide excellent study material. This volume, which is Part I of a set of four volumes, is the most important and widely used textbook and professional reference in the field.

Many scientific, medical, or engineering problems raise the issue of recovering some physical quantities from indirect measurements. For instance, detecting or quantifying flaws or cracks within a material from acoustic or electromagnetic measurements at its surface is an essential problem of non-destructive evaluation. The concept of inverse problems precisely originates from the idea of inverting the laws of physics to recover a quantity of interest from measurable data. Unfortunately, most inverse problems are ill-posed, which means that precise and stable solutions are not easy to devise. Regularization is the key concept to solve inverse problems. The goal of this book is to deal with inverse problems and regularized solutions using the Bayesian statistical tools with a particular view to signal and image estimation. The first three chapters bring the theoretical notions that make it possible to cast inverse problems within a mathematical framework. The next three chapters address the fundamental inverse problem of deconvolution in a comprehensive manner. Chapters 7 and 8 deal with advanced statistical questions linked to image estimation. In the last five chapters, the main tools introduced in the previous chapters are put into a practical context in important applicative areas such as astronomy or medical imaging.

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This newly revised edition of a classic Artech House book provides you with a comprehensive and current understanding of signal detection and estimation, featuring a wealth of new and expanded material. The second edition introduces the concepts of adaptive CFAR detection and distributed CFAR detection. The book provides complete explanations of the mathematics you need to fully master the material, including probability theory, distributions, and random processes.

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