An Introduction to Statistical Communication Theory-David Middleton 1960-05-08 IEEE The IEEE Classic Reprint provides at an advanced level, a uniquely fundamental exposition of the applications of Statistical Communication Theory to a vast spectrum of important physical problems. Included are general principles of signal detection, estimation, measurement, and related topics involving information transfer. Using the statistical Bayesian viewpoint, renowned author David Middleton employs statistical decision theory specifically tailored for the general class of signal processing. Dr. Middleton also provides a special focus on physical modeling of the canonical channel with real-world examples relating to modern telecommunication systems, wireless communications, and radar. Complete with special functions, integrals, solutions of integral equations, and an extensive, updated bibliographic guide, An Introduction to Statistical Communication Theory is a seminal reference, particularly for anyone working in the field of communications, as well as in other areas of statistical physics. (Originally published in 1960).

An Introduction to Statistical Communication Theory-David Middleton 1960 An Introduction to Statistical Communication Theory-David W. Middleton 1960-12-01 This book was written as a first treatment of a statistical communication theory and communications systems at a senior graduate level. The only formal prerequisite is a knowledge of elementary calculus; however, some familiarity with linear systems and transform theory will be helpful. The reader will be motivated by the end results, in particular the discussion of the elements of coding theory, but the development is approached via a discussion of various problems of statistical decision theory. The presentation is by no means complete, and a large number of important problems are left for the reader. The book concludes with a chapter on filtering, in which some results from the theory of random processes are applied to signal detection in noise. Chapter 3 is a brief treatment of random processes and special trai

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