

An Introduction To Statistical Communication Theory

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Communication Theory to Characterize Porous Media *Harold R. Raemer David Middleton John Bowman Thomas David Middleton Kevin C. Daly Boris Ruvimovich Levin Harold Roy Raemer Michael Jay Steiner Simon Haykin Boris Ruvimovič Levin Harold R. Raemer S.P. Eugene Xavier University of Michigan. Engineering Summer Conferences David Middleton Yuk Wing Lee John B. Thomas Richard S. Simpson Stanford University Stanford Electronics Laboratories William D. Aldenderfer*

complete with special functions integrals solutions of integral equations and an extensive updated bibliography 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

the subject of telecommunications has gone through major changes during the past two decades the changes have been brought about by two revolutions the internet and wireless statistical communication theory provides a detailed exposition of fundamental statistical principles that underpin this very vital subject emphasizing modern treatment of detection and estimation theory the book introduces elements of modulation theory and channel coding at specific points in the book to link up with practical realities of digital communications

this book deals with the application of statistics to communication systems and radar signal processing information theory coding random processes optimum linear systems and estimation theory forms the subject matter of this book the subject treatment requires a basic knowledge of probability and statistics this book is intended as a text for a graduate level course on electronics and communication engineering

the book is based on the observation that communication is the central operation of discovery in all the sciences in its active mode we use it to interrogate the physical world sending appropriate signals and receiving nature s reply in the passive mode we receive nature s signals directly since we never know a priori what particular return signal will be forthcoming we must necessarily adopt a probabilistic model of communication this has developed over the approximately seventy years since its beginning into a statistical communication theory or sct here it is the set or ensemble of possible results which is meaningful from this ensemble we attempt to construct in the appropriate model format based on our understanding of the observed physical data and on the associated statistical mechanism analytically represented by suitable probability measures since its inception in

the late 30 s of the last century and in particular subsequent to world war ii sct has grown into a major field of study as we have noted above sct is applicable to all branches of science the latter itself is inherently and ultimately probabilistic at all levels moreover in the natural world there is always a random background noise as well as an inherent a priori uncertainty in the presentation of deterministic observations i e those which are specifically obtained a posteriori the purpose of the book is to introduce non gaussian statistical communication theory and demonstrate how the theory improves probabilistic model the book was originally planed to include 24 chapters as seen in the table of preface dr middleton completed first 10 chapters prior to his passing in 2008 bibliography which represents remaining chapters are put together by the author s close colleagues drs vincent poor leon cohen and john anderson email pressbooks ieee org to request ch 10

this book was written as a first treatment of statistical communication theory and communication 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 chapter 1 is introductory and contains no substantial technical material chapter 2 is an elementary introduction to probability theory at a nonrigorous and non abstract level it is essential to the remainder of the book but may be skipped or reviewed has tily by any student who has taken a one semester undergraduate course in probability chapter 3 is a brief treatment of random processes and spectral analysis it includes an introduction to shot noise sections 3 14 3 17 which is not subsequently used explicitly chapter 4 considers linear systems with random inputs it includes a considerable amount of material on narrow band systems and on the representation of random processes chapter 5 treats the matched filter and the linear least mean squared error filter at an elementary level but in some detail numerous examples are provided throughout the book many of these are of an elementary nature and are intended merely to illustrate textual material a reasonable number of problems of varying difficulty are provided instructors who adopt the text for classroom use may obtain a solutions manual for most of the problems by writing to the author

the report is divided into five parts 1 the narrow band gaussian random process 2 measurement problems 3 noise generation 4 modulation by random processes and 5 wiener filters and random sampling the results presented in the first three parts are not new the methods used to obtain these results however are new these particular parts are presented because the methods are considered substantially superior to those given elsewhere both new methods of treating problems and new results are given in particular

results dealing with the spectra of pulsed communication signals and results on sampling of random processes are not known to be published elsewhere author

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Introduction

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