

MODERN COMMUNICATION PRINCIPLES

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Preface

In 1944, as part of a program conducted by Syracuse's Applied Research Laboratory, the authors prepared a concise review of the principles of modern communications with special emphasis on digital radio communications. It was required that this review be sufficiently self-contained and tutorial to be useful, without additional references, to practicing engineers many years out of college and at the same time introduce the most advanced theoretical models in radio communication theory. This material, issued as Applied Research Laboratory Research Note No. 509 (October, 1944), was so favorably received by engineers within Syracuse that it was suggested that a similar treatment, with suitable revision, might usefully serve a much larger audience. The result is this book.

A very specific point of view is reflected in the selection and organization of the material here. The authors like to think of it as a "systems engineering" viewpoint of communication theory. Many topics currently covered in related senior-level undergraduate or graduate engineering courses are omitted or only slightly treated. Examples of such omissions are the mechanisms of circuit noise, the detailed concepts of Shannon's information theory, and the formulations of statistical decision theory. (The authors heartily recommend the interested reader to any of the excellent introductory books already available on these topics.) On the other hand, the later chapters highlight material which has until recently been unavailable in book form and which is academically covered (if at all) in specialized second-year graduate courses. The early chapters provide a route whereby the engineer or student, armed with little more than a working recollection of calculus and Fourier series, can reach through to an understanding of these later chapters.

Accordingly, the first eight chapters of the book provide background and review material with emphasis on modern techniques and tools. The next five chapters introduce digital signaling, largely in terms of binary systems with "steady" signals, and include treatments of matched-filtering and correlation detection. Two chapters are then devoted to M-ary and coded transmissions. Finally, in the last two chapters, the results for binary systems are extended to real communication channels with fading signals, including the use of diversity combining techniques for combating such fading.

Modern Communication Principles With Application To Digital Signaling

Patrick Vollmar



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