Claude E. Shannon. Collected Papers

Description: Claude Elwood Shannon: Collected Papers

This collection contains all of Claude Elwood Shannon’s published works, as well as many that have never before been published. The published papers include his classic papers on information theory and switching theory. Among the unpublished works are his once-secret war-time reports, his Ph.D. thesis on population genetics, unpublished Bell Labs memoranda, and a paper on the theory of juggling. Also of Interest Multiple Access Communications Foundations for Emerging Technologies Edited by Norman Abramson, University of Hawaii The first book to explain the connection between spread spectrum and ALOHA channels in a coherent fashion. Multiple Access Communications provides a collection of key developments in the theory and practice of multiple user communication channels. Of particular interest to engineers working with packet radio networks, local networks, personal communication networks, and very small aperture terminal satellite networks, this book offers authoritative information on the theory of multiple access which is involved in techniques including: spread spectrum, ALOHA, and spread ALOHA.


Contemporary Cryptology: The Science of Information Integrity Edited by Gustavus J. Simmons, Sandia National Laboratories

Written by those at the very forefront of the field, Contemporary Cryptology offers all aspects of the science of information integrity from the simplest concepts to the latest research. It provides a practical guide to the algorithms, protocols, applications, and essential literature on information integrity for engineers and scientists in need of a coherent view of the most recent developments.


Key Papers in the Development of Coding Theory Edited by E. R. Berlekamp, Cyclotomics Composed of key papers in the field, this book delivers concrete information from foremost experts on the beginnings of coding theory straight through important developments which have led this technology to its thriving state. This indispensable reference tool offers a variety of significant applications of coding theory in deep space communication systems including: military communication systems, data communication systems, information retrieval systems, and large secondary memories for computer systems.


Key Papers in the Development of Information Theory Edited by David Slepian Together with its companion, Key Papers in the Development of Coding Theory, this volume provides the reader with a detailed reference guide to the many developments that followed C. E. Shannon’s profound observations on communication systems. Written by those at the forefront of the field, Key Papers in the Development of Information Theory guides the reader through a chronological discussion of 25 years of active research in the classical source and channel, rate distortion theory, and many terminal channels.

1974; Hardcover; 472 pp; IEEE Order No. PC0029–9; ISBN 0–87942–027–8

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