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Mathematical Foundations for Signal Processing, Communications, and Networking describes mathematical concepts and results important in the design, analysis, and optimization of signal processing algorithms, modern communication systems, and networks. Helping readers master key techniques and comprehend the current research literature, the book offers a comprehensive overview of methods and applications from linear algebra, numerical analysis, statistics, probability, stochastic processes, and optimization.

From basic transforms to Monte Carlo simulation to linear programming, the text covers a broad range of mathematical techniques essential to understanding the concepts and results in signal processing, telecommunications, and networking. Along with discussing mathematical theory, each self-contained chapter presents examples that illustrate the use of various mathematical concepts to solve different applications. Each chapter also includes a set of homework exercises and readings for additional study.

This text helps readers understand fundamental and advanced results as well as recent research trends in the interrelated fields of signal processing, telecommunications, and networking. It provides all the necessary mathematical background to prepare students for more advanced courses and train specialists working in these areas.

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Mathematical Foundations for Signal Processing, Communications, and Networking From CRC Press Bibliography

- Sales Rank: #2950101 in eBooks
- Published on: 2011-12-21
- Released on: 2011-12-21
- Format: Kindle eBook

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Editorial Review

Review

"Here is a book providing the mathematical tools for a large range of researchers, more precisely for future researchers. First, we remark that the involved range is quite new, since many books give mathematical tools for signal processing, for communications or for networking. But this volume gives the tools for all three domains. In this way, a large group of students and researchers is addressed. Therefore the diversity of the subjects is larger. ... the chapters are written by well-known active workers in the domain. ... The included examples are interesting and suggestive. ... The book will be helpful for students and researchers to be acquainted with the recent trends in the areas included in the book. We think we are faced with an excellent book that will soon become a standard reference in the respective areas."

About the Author

Erchin Serpedin is a professor in the Department of Electrical Engineering at Texas A&M University. Dr. Serpedin has been an associate editor of several journals and has received numerous honors, including a National Science Foundation CAREER Award, a National Research Council Fellow Award, and an American Society for Engineering Education Fellow Award. His research focuses on statistical signal processing, wireless communications, and bioinformatics.

Thomas Chen is a professor of networks at Swansea University. Dr. Chen is technical editor for IEEE Press, editor-in-chief of *IEEE Network*, senior editor of *IEEE Communications Magazine*, and associate editor of *International Journal of Security and Networks, Journal on Security and Communication Networks*, and *International Journal of Digital Crime and Forensics*. His research areas encompass web filtering, web classification, traffic classification, smart grid security, privacy, cyber crime, and malware.

Dinesh Rajan is an associate professor in the Department of Electrical Engineering at Southern Methodist University. An IEEE senior member, Dr. Rajan has received several awards, including a National Science Foundation CAREER Award. His research interests include communications theory, wireless networks, information theory, and computational imaging.

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