



Introduction to Random Signals and Noise

Wim C. Van Etten

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Random signals and noise are present in many engineering systems and networks. Signal processing techniques allow engineers to distinguish between *useful* signals in audio, video or communication equipment, and *interference*, which disturbs the desired signal.

With a strong mathematical grounding, this text provides a clear introduction to the fundamentals of stochastic processes and their practical applications to random signals and noise. With worked examples, problems, and detailed appendices, *Introduction to Random Signals and Noise* gives the reader the knowledge to design optimum systems for effectively coping with unwanted signals.

Key features:

- Considers a wide range of signals and noise, including analogue, discrete-time and bandpass signals in both time and frequency domains.
- Analyses the basics of digital signal detection using matched filtering, signal space representation and correlation receiver.
- Examines optimal filtering methods and their consequences.
- Presents a detailed discussion of the topic of Poisson processes and shot noise.

An excellent resource for professional engineers developing communication systems, semiconductor devices, and audio and video equipment, this book is also ideal for senior undergraduate and graduate students in Electronic and Electrical Engineering.

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A lot of people always spent all their free time to vacation or go to the outside with them family members or their friend. Are you aware? Many a lot of people spent many people free time just watching TV, or perhaps playing video games all day long. If you would like try to find a new activity that is look different you can read some sort of book. It is really fun for you. If you enjoy the book that you simply read you can spent all day long to reading a reserve. The book Introduction to Random Signals and Noise it is extremely good to read. There are a lot of folks that recommended this book. These were enjoying reading this book. If you did not have enough space to develop this book you can buy the actual e-book. You can m0ore effortlessly to read this book from a smart phone. The price is not too costly but this book features high quality.

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