



An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics)

By John R. Pierce

[Download now](#)

[Read Online](#) 

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce

"Uncommonly good...the most satisfying discussion to be found." — *Scientific American*.

Behind the familiar surfaces of the telephone, radio, and television lies a sophisticated and intriguing body of knowledge known as information theory. This is the theory that has permitted the rapid development of all sorts of communication, from color television to the clear transmission of photographs from the vicinity of Jupiter. Even more revolutionary progress is expected in the future.

To give a solid introduction to this burgeoning field, J. R. Pierce has revised his well-received 1961 study of information theory for a second edition. Beginning with the origins of the field, Dr. Pierce follows the brilliant formulations of Claude Shannon and describes such aspects of the subject as encoding and binary digits, entropy, language and meaning, efficient encoding, and the noisy channel. He then goes beyond the strict confines of the topic to explore the ways in which information theory relates to physics, cybernetics, psychology, and art.

Mathematical formulas are introduced at the appropriate points for the benefit of serious students. A glossary of terms and an appendix on mathematical notation are proved to help the less mathematically sophisticated.

J. R. Pierce worked for many years at the Bell Telephone Laboratories, where he became Director of Research in Communications Principles. His *Introduction to Information Theory* continues to be the most impressive nontechnical account available and a fascinating introduction to the subject for lay readers.

 [Download An Introduction to Information Theory: Symbols, Si ...pdf](#)

 [Read Online An Introduction to Information Theory: Symbols, ...pdf](#)

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics)

By John R. Pierce

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics)

By John R. Pierce

"Uncommonly good...the most satisfying discussion to be found." — *Scientific American*.

Behind the familiar surfaces of the telephone, radio, and television lies a sophisticated and intriguing body of knowledge known as information theory. This is the theory that has permitted the rapid development of all sorts of communication, from color television to the clear transmission of photographs from the vicinity of Jupiter. Even more revolutionary progress is expected in the future.

To give a solid introduction to this burgeoning field, J. R. Pierce has revised his well-received 1961 study of information theory for a second edition. Beginning with the origins of the field, Dr. Pierce follows the brilliant formulations of Claude Shannon and describes such aspects of the subject as encoding and binary digits, entropy, language and meaning, efficient encoding, and the noisy channel. He then goes beyond the strict confines of the topic to explore the ways in which information theory relates to physics, cybernetics, psychology, and art. Mathematical formulas are introduced at the appropriate points for the benefit of serious students. A glossary of terms and an appendix on mathematical notation are proved to help the less mathematically sophisticated.

J. R. Pierce worked for many years at the Bell Telephone Laboratories, where he became Director of Research in Communications Principles. His *Introduction to Information Theory* continues to be the most impressive nontechnical account available and a fascinating introduction to the subject for lay readers.

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics)

By John R. Pierce Bibliography

- Sales Rank: #67796 in eBooks
- Published on: 2012-04-26
- Released on: 2012-03-29
- Format: Kindle eBook



[Download An Introduction to Information Theory: Symbols, Si ...pdf](#)



[Read Online An Introduction to Information Theory: Symbols, ...pdf](#)

Download and Read Free Online An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce

Editorial Review

Users Review

From reader reviews:

Jennifer Games:

Have you spare time to get a day? What do you do when you have much more or little spare time? Yep, you can choose the suitable activity regarding spend your time. Any person spent their own spare time to take a go walking, shopping, or went to often the Mall. How about open or perhaps read a book entitled An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics)? Maybe it is for being best activity for you. You know beside you can spend your time along with your favorite's book, you can cleverer than before. Do you agree with it has the opinion or you have additional opinion?

Maureen Guzman:

Information is provisions for folks to get better life, information currently can get by anyone on everywhere. The information can be a understanding or any news even an issue. What people must be consider when those information which is within the former life are difficult to be find than now's taking seriously which one is appropriate to believe or which one the resource are convinced. If you have the unstable resource then you have it as your main information we will see huge disadvantage for you. All those possibilities will not happen throughout you if you take An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) as the daily resource information.

Clyde King:

Reading a book tends to be new life style in this era globalization. With examining you can get a lot of information that can give you benefit in your life. Using book everyone in this world may share their idea. Ebooks can also inspire a lot of people. A great deal of author can inspire their own reader with their story or perhaps their experience. Not only the story that share in the guides. But also they write about the ability about something that you need illustration. How to get the good score toefl, or how to teach children, there are many kinds of book which exist now. The authors nowadays always try to improve their expertise in writing, they also doing some analysis before they write with their book. One of them is this An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics).

Larry Strickland:

Your reading 6th sense will not betray anyone, why because this An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) e-book written by well-known writer who knows well how to make book which might be understand by anyone who read the book. Written in good

manner for you, still dripping wet every ideas and composing skill only for eliminate your hunger then you still doubt An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) as good book not simply by the cover but also with the content. This is one guide that can break don't determine book by its handle, so do you still needing one more sixth sense to pick this!? Oh come on your reading through sixth sense already told you so why you have to listening to another sixth sense.

Download and Read Online An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce #ULIW15T42PG

Read An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce for online ebook

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce books to read online.

Online An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce ebook PDF download

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce Doc

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce MobiPocket

An Introduction to Information Theory: Symbols, Signals and Noise (Dover Books on Mathematics) By John R. Pierce EPub