



# Science and Information Theory: Second Edition (Dover Books on Physics)

*Leon Brillouin*

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## **Science and Information Theory: Second Edition (Dover Books on Physics)** Leon Brillouin

A classic source for exploring the connections between information theory and physics, this text is geared toward upper-level undergraduates and graduate students. The author, a giant of twentieth-century mathematics, applies the principles of information theory to a variety of issues, including Maxwell's demon, thermodynamics, and measurement problems.

Author Leon Brillouin begins by defining and applying the term "information" and proceeds to explorations of the principles of coding, coding problems and solutions, the analysis of signals, a summary of thermodynamics, thermal agitation and Brownian motion, and thermal noise in an electric circuit. A discussion of the negentropy principle of information introduces Brillouin's renowned examination of Maxwell's demon. Concluding chapters explore the associations between information theory, the uncertainty principle, and physical limits of observation, in addition to problems related to computing, organizing information, and inevitable errors.

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