

Norbert Wiener Encyclopedia Article

Norbert Wiener

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Norbert Wiener

1894-1964

American mathematician best known for establishing the science of cybernetics, which is concerned with the mathematical analysis of, analogies between, and information flow within mechanical and biological systems. This work was influenced by his previous application of statistical methods to anti-aircraft fire control and communications engineering. Wiener also derived a physical definition of information related to entropy. He developed a mathematical theory of Brownian motion and advanced the study of integrals, quantum mechanics, and harmonic analysis.