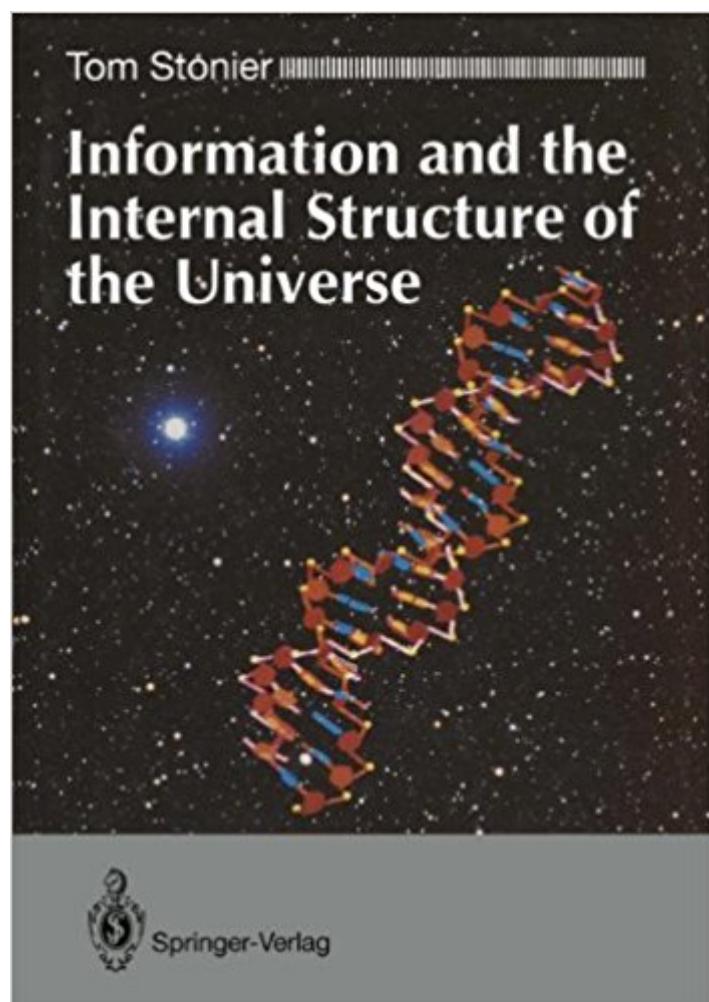


The book was found

Information And The Internal Structure Of The Universe: An Exploration Into Information Physics



Synopsis

The first of a planned trilogy, this book examines the proposition that "Information" is as much a part of the physical universe as energy and matter. The acceptance of such a proposition has profound implications for the physical sciences; it also lays the foundations for a general theory of information. This book is directed firstly at researchers in information theory and scientists in other disciplines. However, its relatively non-mathematical nature and accessible writing style place it at the "scientific" end of the spectrum of popular science books. A general theory of information will emerge in the second volume; the third will examine the mechanism and evolution of human and machine intelligence.

Book Information

Hardcover: 155 pages

Publisher: Springer; 1 edition (September 7, 1990)

Language: English

ISBN-10: 3540195998

ISBN-13: 978-3540195993

Product Dimensions: 10.1 x 6.8 x 0.7 inches

Shipping Weight: 14.9 ounces

Average Customer Review: 3.0 out of 5 stars [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #2,873,838 in Books (See Top 100 in Books) #67 in Books > Science & Math > Physics > Entropy #851 in Books > Computers & Technology > Computer Science > Information Theory #983 in Books > Textbooks > Computer Science > Artificial Intelligence

Customer Reviews

Author introduces a conceptual framework to approach information at the natural science (physics) level and shows various examples and ideas to quantify as well as compare "meaningful" information content and organization in physical systems and elements. It brings ideas from thermodynamics and biological systems and develops seed ideas mentioned by Werner Heisenberg in his seminal book "What is Life?". Earlier review from Glenn appears to have been written without reading the book or based pre-conceived notion. The objection raised is completely and thoroughly addressed in pp. 56 - 59 and is accessible to anyone with basic understanding of physics and math.

Entropy is not disorder; this has been demonstrated many times for those interested. It cannot be negative, it can only decrease, it is a state function difference. It is not the negative of information,

which is not a new force but requires an interpreter/recognizer. The comment that Shannon confused the situation by attributing randomness with maximum information has some truth but belies the fact Shannon was able to equate the rate of information transmission with a reduction of uncertainty to the receiver, a subtle but critical fact explained elsewhere as I have referenced many times. The book is wildly overpriced which is the real clue.

For a reader familiar with basic math, this book contains an interesting introduction to the idea that information is as real and as important to science as energy is. It's easy to read.

[Download to continue reading...](#)

Information and the Internal Structure of the Universe: An Exploration into Information Physics
Neutrons, Nuclei and Matter: An Exploration of the Physics of Slow Neutrons (Dover Books on Physics)
Electronic Structure and the Properties of Solids: The Physics of the Chemical Bond (Dover Books on Physics)
The Dreaming Universe: A Mind-Expanding Journey Into the Realm Where Psyche and Physics Meet Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation (Handbook of Geophysical Exploration: Seismic Exploration)
Libraries in the Information Age: An Introduction and Career Exploration, 3rd Edition (Library and Information Science Text)
The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series)
The Unknown Universe: A New Exploration of Time, Space, and Modern Cosmology
Elements 2017 Calendar: A Visual Exploration of Every Known Atom in the Universe
Official Handbook of the Marvel Universe A to Z Volume 2 (Official Handbook to the Marvel Universe a to Z)
The Urantia Revelation: The Structure and Meaning of the Universe Explained
The Urantia Revelation: The Structure and Meaning of the Universe Explained, Second Edition
Reality Is Not What It Seems: The Elusive Structure of the Universe and the Journey to Quantum Gravity
Polypropylene Structure, blends and composites: Volume 1 Structure and Morphology
Advanced Organic Chemistry: Part A: Structure and Mechanisms: Structure and Mechanisms Pt. A
Noise Theory and Application to Physics: From Fluctuations to Information (Advanced Texts in Physics)
Upside Down: How the Left Turned Right into Wrong, Truth into Lies, and Good into Bad Essays That Will Get You into Medical School (Essays That Will Get You Into...Series) [Second Edition] (Barron's Essays That Will Get You Into Medical School)
Accounting Information Systems and Internal Control
Meeting the Universe Halfway: Quantum Physics and the Entanglement of Matter and Meaning

[Dmca](#)