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The information in question is Fisher information, a simple concept little known to physicists. Both statistical and physical properties of Fisher information are developed. This information is shown to be a physical measure of disorder, sharing with entropy the property of monotonic change with time.

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This information is shown to be a physical measure of disorder, sharing with entropy the property of monotonic change with time. The information concept is applied

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'phenomenally' to derive most known physics, from statistical mechanics and thermodynamics to quantum mechanics, the Einstein field equations, and quantum gravity.

~~Physics from Fisher Information by B. Roy Frieden~~

PHYSICS FROM FISHER INFORMATION A Unification This book defines and develops a unifying principle of physics, that of ' extreme physical information ' . The information in question is, perhaps surprisingly, not Shannon or Boltzmann entropy but, rather, Fisher information, a simple concept little known to physicists.

~~PHYSICS FROM FISHER INFORMATION~~

B. R. Frieden uses a single procedure, called extreme physical information, with the aim of deriving ' most known physics, from statistical mechanics and thermodynamics to quantum mechanics, the Einstein field equations and quantum gravity ' . His method, which is based on Fisher information, is given a detailed exposition in this book, and we attempt to assess the extent to which he succeeds in his task.

~~Physics from Fisher information—ScienceDirect~~

Physics from Fisher Information: A Unification by B. Roy Frieden Roy Frieden Amazon Link This book defines and develops a unifying principle of physics, that of ' extreme physical information ' . The information in question is, perhaps surprisingly, not Shannon or Boltzmann entropy but, rather, Fisher information, a simple concept little known to physicists.

~~Physics from Fisher Information—Civilization Emerging~~

Fisher information is a quantity devised by the great statistician R. A. Fisher in the 1920s, which is supposed to tell us how easy it is to learn about a probability distribution

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by sampling from it. Suppose that the distribution, given by a probability density p , depends on some parameter, traditionally represented by the Greek letter θ , and here by t .

~~B. Roy Frieden, Physics from Fisher Information~~

The Fisher information measures the localization of a probability distribution function, in the following sense. Let $f(\cdot)$ be a probability density on \mathbb{R}^N , and (X_n) a family of independent, identically distributed random variables, with law $f(\cdot - \theta)$, where θ is unknown and should be determined by observation.

~~Fisher Information—an overview | ScienceDirect Topics~~

The Fisher information is used for quantum state estimation and considered as a physical resource associated with various quantities.

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paradigm, Fisher information is used to construct hypothesis tests and confidence intervals using maximum likelihood estimators; second, in the Bayesian paradigm, Fisher information is used to define a default prior; lastly, in the minimum description length paradigm, Fisher information is used to measure model complexity.

~~A Tutorial on Fisher Information — arXiv~~

Robots can Understand Physics from Fisher Information.

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Robots can Understand Physics from Fisher Information. J. Michael Herrmann Institute for Perception, Action and Behaviour, School of Informatics, University of Edinburgh, and Edinburgh Centre for Robotics. B. Roy Frieden [1] presented an attempt to provide a new foundation for theoretical physics, which, at a first glance, appears quite attractive: Physics is what we know about of matter and its motion through space and time.

~~Robots can Understand Physics from Fisher Information~~
Physics from Fisher Information: A Unification: Frieden, B. Roy: Amazon.sg: Books. Skip to main content.sg. All Hello, Sign in. Account & Lists Account Returns & Orders. Try. Prime. Cart Hello Select your address Best Sellers Today's Deals Electronics Customer Service Books New Releases Home Computers Gift Ideas ...

~~Physics from Fisher Information: A Unification: Frieden, B ...~~
Extreme physical information is a principle in information theory, first described and formulated in 1998 by B. Roy Frieden, Emeritus Professor of Optical Sciences at the University of Arizona. The principle states that the precipitation of scientific laws can be derived through Fisher information, taking the form of differential equations and probability distribution functions.

~~Extreme physical information - Wikipedia~~
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~~Physics from Fisher Information: A Unification: Frieden, B ...~~
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~~Physics from Fisher Information: A Unification: Frieden, B...~~
B.R. Frieden, Physics From Fisher Information (Cambridge: Cambridge University Press), xx+240 pp., £47:50; ISBN: 0-521-63167-X. Abstract B. R. Frieden uses a single procedure, called extreme physical information, with the aim of deriving ' most known physics, from statistical mechanics and thermodynamics to quantum mechanics, the Einstein field equations and quantum gravity ' .

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In a theory developed by B. Roy Frieden, "physical information" is defined as the loss of Fisher information that is incurred during the observation of a physical effect. Thus, if the effect has an intrinsic information level J but is observed at information level I , the physical information is defined to be the difference $I - J$.

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