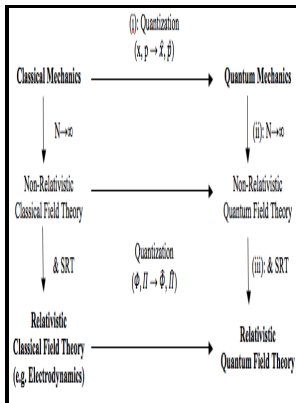


# Gauging what's real - the conceptual foundations of contemporary gauge theories

Oxford University Press - Gauging what's real : the conceptual foundations of contemporary gauge theories (eBook, 2007) [quizapp.evertonfc.com]



Description: -

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Physics -- Philosophy

Gauge fields (Physics)Gauging what's real - the conceptual foundations of contemporary gauge theories

-Gauging what's real - the conceptual foundations of contemporary gauge theories

Notes: Includes bibliographical references (p. [280]-286) and index

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## Gauging What's Real

Interpreting Quantized Yang-Mills Gauge Theories ; 9. Abstract: Richard Healey presents a ground-breaking study of an area of physics not previously explored by philosophy: gauge theory.

## Gauging What's Real

Gauging What's Real describes the representations provided by gauge theories in both classical and quantum physics. A gauge theory's representations are mathematical structures.

## Holonomy Interpretation and Time: An Incompatible Match? A Critical Discussion of R. Healey's Gauging What's Real: The Conceptual Foundations of Contemporary Gauge Theories on JSTOR

Its 2008 Lakatos prize was well-earned. How, though, do such representations work? If so, then gauge symmetry is a purely formal property since it reflects no corresponding symmetry in nature. It is not an easy read, but it is deeply rewarding - an important monograph and a useful reference all in one.

Gauging what's real : the conceptual foundations of contemporary gauge theories (eBook, 2007) [quizapp.evertonfc.com]

Richard Healey defends the thesis that gauge transformations are purely formal symmetries of almost all the classes of representations provided by each of our theories of fundamental forces.

Healey Richard. Gauging What's Real: The Conceptual Foundations of Contemporary Gauge Theories [PDF]

What is a Gauge Theory? During this time, we have made some of our learning resources freely accessible. Its 2008 Lakatos prize was well-earned.

### **Gauging What's Real**

There are two ways in which time re-appears in the picture: by considering complete solutions to the original problem, where the magnetic flux is static, and by examining the effects of time dependent magnetic fluxes. Springer is one of the leading international scientific publishing companies, publishing over 1,200 journals and more than 3,000 new books annually, covering a wide range of subjects including biomedicine and the life sciences, clinical medicine, physics, engineering, mathematics, computer sciences, and economics. Do the representations related by such a gauge transformation merely offer alternative ways of representing the very same situation? Gauge theories have provided our most successful representations of the fundamental forces of nature.

### **Gauging What's Real : Richard Healey : 9780199576937**

But how do such representations work? But noticing Healey's book is one thing, and comprehending its depth is quite another.

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