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# **Quantum Field Theory Demystified**

David McMahon



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#### Learn quantum field theory relatively easily

Trying to comprehend quantum field theory but don't have infinite time or the IQ of Einstein? No problem! This easy-to-follow guide helps you understand this complex subject matter without spending a lot of energy.

*Quantum Field Theory Demystified* covers essential principles such as particle physics and special relativity. You'll learn about Lagrangian field theory, group theory, and electroweak theory. The book also explains continuous and discrete symmetries, spontaneous symmetry breaking, and supersymmetry. With thorough coverage of the mathematics of quantum field theory and featuring end-of-chapter quizzes and a final exam to test your knowledge, this book will teach you the fundamentals of this theoretical framework in no time at all.

This fast and easy guide offers:

- Numerous figures to illustrate key concepts
- Sample equations with worked solutions
- Coverage of quantum numbers
- Details on the Dirac equation, the Feynman rules, and the Higgs mechanism
- A time-saving approach to performing better on an exam or at work

Simple enough for a beginner, but challenging enough for an advanced student, *Quantum Field Theory Demystified* is your shortcut to understanding this fascinating area of physics.

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