

# Standard Model

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Introduction to quantum field theory for graduate students in theoretical and experimental particle physics. The standard model brings together two theories of particle physics in order to describe the interactions of subatomic particles, except those due to gravity. This book uses the standard model as a vehicle for introducing quantum field theory. In doing this the book also introduces much of the phenomenology on which this model is based. The book uses a modern approach, emphasizing effective field theory techniques, and contains brief discussions of some of the main proposals for going beyond the standard model, such as seesaw neutrino masses, supersymmetry, and grand unification. Requiring only a minimum of background material, this book is ideal for graduate students in theoretical and experimental particle physics. It concentrates on getting students to the level of being able to use this theory by doing real calculations with the minimum of formal development, and contains several problems. Password protected solutions are available to lecturers at [cambridge.org/9780521860369](http://cambridge.org/9780521860369).  
EAN/ISBN : 9780511254857 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Burgess, Cliff - Moore, Guy

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