

Burgess has written a truly remarkable monograph on effective field theories in modern theoretical physics. The array of applications discussed is staggering (drawn for example from particle physics, cosmology, nuclear physics and condensed matter physics). Even advanced practitioners can learn a lot from reading this text. I certainly did.

Mark Wise, California Institute of Technology

This monograph coherently unveils the full scope of effective field theories (EFTs) in action across vastly different areas of physics. It covers the fundamentals of EFTs and applications in particle physics, cosmology, and condensed matter physics with unique breadth and clarity. This book is recommended effectively to anyone who studies theoretical physics.

Sung-Sik Lee, Perimeter Institute for Theoretical Physics

This book, written by one of the world leaders in the field, is the most comprehensive and authoritative presentation of EFT applied to essentially all areas of physics. It illustrates, in a clear and detailed way, how EFT explains many apparently unrelated phenomena. This excellent book is strongly recommended to graduate students and professionals alike. It is an ode to the unity of physics.

Fernando Quevedo, University of Cambridge

C.P. BURGESS is a professor at both McMaster University and the Perimeter Institute for Theoretical Physics, and co-author of the book *The Standard Model: A Modern Primer*.

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