

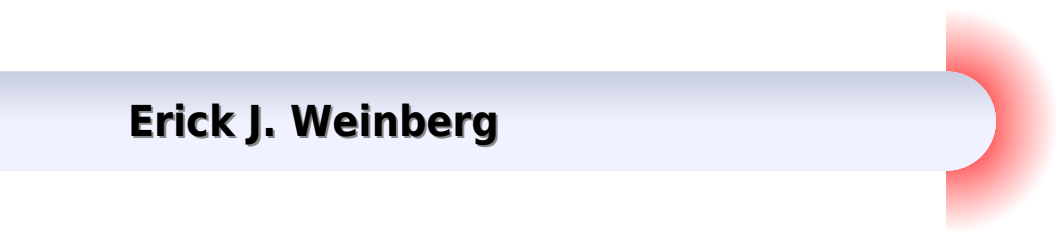
Classical Covariant Fields

MARK BURGESS

CAMBRIDGE MONOGRAPHS
ON MATHEMATICAL PHYSICS

Classical Covariant Fields Cambridge Monographs On Mathematical Physics

Erick J. Weinberg



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Classical Covariant Fields Mark Burgess, 2002-04-04 This 2002 book discusses the classical foundations of field theory using the language of variational methods and covariance. It explores the limits of what can be achieved with purely classical notions and shows how these have a deep and important connection with the second quantized field theory which follows on from the Schwinger Action Principle. The book takes a pragmatic view of field theory focusing on issues which are usually omitted from quantum field theory texts and cataloging results which are often hard to find in the literature. Care is taken to explain how results arise and how to interpret them physically for graduate students starting out in the field. Many physical examples are provided making the book an ideal supplementary text for courses on elementary field theory, group theory and dynamical systems. It will also be a valuable reference for researchers already working in these and related areas.

Classical Covariant Fields Mark Burgess, 2023-02-09 This 2002 book is for graduate students and researchers working on field theory, group theory and dynamical systems. **The Philosophy and Physics of Noether's Theorems** James Read, Nicholas J. Teh, 2022-09-29 In 1918 Emmy Noether in her paper *Invariante Variationsprobleme* proved two theorems and their converses on variational problems that went on to revolutionise theoretical physics. 100 years later the mathematics of Noether's theorems continues to be generalised and the physical applications of her results continue to diversify. This centenary volume brings together world leading historians, philosophers, physicists and mathematicians in order to clarify the historical context of this work, its foundational and philosophical consequences and its myriad physical applications. Suitable for advanced undergraduate and graduate students and professional researchers, this is a go-to resource for those wishing to understand Noether's work on variational problems and the profound applications which it finds in contemporary physics.

Classical Solutions in Quantum Field Theory Erick J. Weinberg, 2012-08-16 An overview of classical solutions and their consequences in quantum field theory, high energy physics and cosmology for graduates and researchers. **Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14 Meeting On General Relativity (In 4 Parts)** Massimo Bianchi, Robert T Jantzen, Remo Ruffini, 2017-10-13 The four volumes of the proceedings of MG14 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments. The scientific program of the meeting included 35 morning plenary talks over 6 days, 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons. Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts, black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics. The remaining volumes include

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