

1. Record Nr.	UNINA9910144733903321
Autore	Gross Franz
Titolo	Relativistic quantum mechanics and field theory [[electronic resource] /] / Franz Gross
Pubbl/distr/stampa	New York, : Wiley, 1999, c1993
ISBN	1-281-76435-3 9786611764357 0-471-59113-0 3-527-61733-7 3-527-61734-5
Edizione	[Wiley science paperback ed.]
Descrizione fisica	1 online resource (646 p.)
Collana	Wiley science paperback series
Disciplina	530.12 539.7
Soggetti	Relativistic quantum theory Quantum field theory Symmetry (Physics) Gauge fields (Physics) Teoria quàntica de camps Simetria (Física) Camps de galga (Física) Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Wiley Classics Library Edition published 1999." "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references (p. 615-618) and index.
Nota di contenuto	Relativistic Quantum Mechanics and Field Theory; CONTENTS; Preface; Part I QUANTUM THEORY OF RADIATION; 1. Quantization of the Nonrelativistic String; 1.1 The one-dimensional classical string; 1.2 Normal modes of the string; 1.3 Quantization of the string; 1.4 Canonical commutation relations; 1.5 The number operator and phonon states; 1.6 The quanta as particles; 1.7 The classical limit: Field-particle duality; 1.8 Time translation; Problems; 2. Quantization of the Electromagnetic Field; 2.1 Lorentz transformations; 2.2 Relativistic form of Maxwell's theory

2.3 Interactions between particles and fields  
 2.4 Plane wave expansions;  
 2.5 Massive vector fields; 2.6 Field quantization; 2.7 Spin of the photon; Problems; 3. Interaction of Radiation with Matter; 3.1 Time evolution and the S-matrix; 3.2 Decay rates and cross sections; 3.3 Atomic decay; 3.4 The Lamb shift; 3.5 Deuteron photodisintegration; Problems; Part II RELATIVISTIC EQUATIONS; 4. The Klein-Gordon Equation; 4.1 The equation; 4.2 Conserved norm; 4.3 Solutions for free particles; 4.4 Pair creation from a high Coulomb barrier; 4.5 Two-component form; 4.6 Nonrelativistic limit  
 4.7 Coulomb scattering  
 4.8 Negative energy states; Problems; 5. The Dirac Equation; 5.1 The equation; 5.2 Conserved norm; 5.3 Solutions for free particles; 5.4 Charge conjugation; 5.5 Coulomb scattering; 5.6 Negative energy states; 5.7 Nonrelativistic limit; 5.8 The Lorentz group; 5.9 Covariance of the Dirac equation; 5.10 Bilinear covariants; 5.11 Chirality and massless fermions; Problems; 6. Application of the Dirac Equation; 6.1 Spherically symmetric potentials; 6.2 Hadronic structure; 6.3 Hydrogen-like atoms; Problems; Part III ELEMENTS OF QUANTUM FIELD THEORY; 7. Second Quantization  
 7.1 Schrodinger theory  
 7.2 Identical particles; 7.3 Charged Klein-Gordon theory; 7.4 Dirac theory; 7.5 Interactions: An introduction; Problems; 8. Symmetries I; 8.1 Noether's theorem; 8.2 Translations; 8.3 Transformations of states and operators; 8.4 Parity; 8.5 Charge conjugation; 8.6 Time reversal; 8.7 The PCT theorem; Problems; 9. Interacting Field Theories; 9.1  $\phi^3$  theory: An example; 9.2 Relativistic decays; 9.3 Relativistic scattering; 9.4 Introduction to the Feynman rules; 9.5 Calculation of the cross section; 9.6 Effective nonrelativistic potential; 9.7 Identical particles  
 9.8 Pion-nucleon interactions and isospin  
 9.9 One-pion exchange; 9.10 Electroweak decays; Problems; 10. Quantum Electrodynamics; 10.1 The Hamiltonian; 10.2 Photon propagator:  $ep$  scattering; 10.3 Antiparticles:  $e^+e^- \rightarrow \mu^+\mu^-$ ; 10.4  $e^+e^-$  annihilation; 10.5 Fermion propagator: Compton scattering; Problems; 11. Loops and Introduction to Renormalization; 11.1 Wick's theorem; 11.2 QED to second order; 11.3 Electron self-energy; 11.4 Vacuum bubbles; 11.5 Vacuum polarization; 11.6 Loop integrals and dimensional regularization; 11.7 Dispersion relations; 11.8 Vertex corrections  
 11.9 Charge renormalization

## Sommario/riassunto

An accessible, comprehensive reference to modern quantum mechanics and field theory. In surveying available books on advanced quantum mechanics and field theory, Franz Gross determined that while established books were outdated, newer titles tended to focus on recent developments and disregard the basics. Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field. With a strong emphasis on applications to practical problems as well as calculations, Dr. Gross provides complete, up-to-date coverage of both elementary and advanced topics essential for a well-round

2. Record Nr.	UNICAMPANIAVAN0126747
Autore	Weisser, Steffen
Titolo	BEM-based Finite Element Approaches on Polytopal Meshes / Steffen Weißer
Pubbl/distr/stampa	Cham, : Springer, 2019
Titolo uniforme	BEM-based Finite Element Approaches on Polytopal Meshes
Descrizione fisica	xvii, 235 p. : ill. ; 24 cm
Soggetti	65Nxx - Numerical methods for partial differential equations, boundary value problems [MSC 2020] 41-XX - Approximations and expansions [MSC 2020] 65Dxx - Numerical approximation and computational geometry (primarily algorithms) [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

<b>3. Record Nr.</b>	UNINA9910255268503321
<b>Autore</b>	Chan Hau Nung Annie
<b>Titolo</b>	Women in the Hong Kong Police Force : Organizational Culture, Gender and Colonial Policing // by Annie Hau-Nung Chan, Lawrence Ka-Ki Ho
<b>Pubbl/distr/stampa</b>	London : , : Palgrave Macmillan UK : , : Imprint : Palgrave Macmillan, , 2017
<b>ISBN</b>	9781349952816 1349952818
<b>Edizione</b>	[1st ed. 2017.]
<b>Descrizione fisica</b>	1 online resource (XI, 298 p.)
<b>Collana</b>	Palgrave Advances in Criminology and Criminal Justice in Asia, , 2946-2886
<b>Disciplina</b>	363.2082
<b>Soggetti</b>	Criminology Crime - Sociological aspects Sex Economics - Sociological aspects China - History Asia - Politics and government Crime Control and Security Crime and Society Gender Studies Economic Sociology History of China Asian Politics
<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Nota di bibliografia</b>	Includes bibliographical references at the end of each chapters and index.
<b>Sommario/riassunto</b>	This book examines the development of women in the Hong Kong Police Force (HKP) over the past 68 years, beginning from the early colonial years when calls to include women in law enforcement first emerged, to the recruitment of the first female sub-inspector in 1949, and through to the current situation where policewomen constitute 15% of the total HKP establishment. What accounts for these developments

and what do they tell us about organisational culture, gender and colonial policing? This interdisciplinary work is relevant to fields including women's studies, gender studies, policing studies, criminology, colonial history, sociology, and organisational studies, and will appeal to academics, students and lay readers interested in the development of women in policing.

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