

BOOKSHELF

Books received

Modeling Black Hole Evaporation by Alessandro Fabbri and José Navarro-Salas, Imperial College Press. Hardback ISBN 1860945279 £34 (\$55).

This book gives a detailed and pedagogical presentation of the Hawking effect and its physical implications, and then discusses the backreaction problem, especially in relation to exactly solvable semiclassical models that analytically describe black-hole evaporation. The book aims to link the general relativistic viewpoint on black-hole evaporation and the new CFT-type approaches. The discussion on backreaction effects is valuable for graduate students and researchers in gravitation, high-energy physics and astrophysics.

Soft Multihadron Dynamics by W Kittel and E A De Wolf, World Scientific. Hardback ISBN 9812562958 £60 (\$98).

This book comprehensively covers the development and status of soft (i.e. non-perturbative) phenomena encountered in the production of (multi-) hadronic final states by high-energy collisions of various particles. Phenomenological models used to describe the data are in general inspired by quantum chromodynamics (QCD) and the book often crosses between soft and hard (perturbative) QCD. Postgraduate students, researchers and academics interested in multihadron production will find this useful reading.

The QCD Vacuum Hadrons and Superdense Matter, 2nd edition by Edward V Shuryak, World Scientific. Hardback ISBN 9812385738 £75 (\$101). Paperback ISBN 9812385746 £43 (\$58).

This book is invaluable for particle and nuclear physicists and comprises extensive lecture notes on non-perturbative quantum chromodynamics. The original edition from 1988 had a review style. In this edition the outline remains, but the text has been rewritten and extended. As well as incorporating new developments, this edition has benefited from several graduate courses taught by the author at Stony Brook during the past decade. The text now includes exercises and about 1000 references to major works, arranged by subject.

Modern Supersymmetry: Dynamics and Duality by John Terning, Oxford University Press. Hardback ISBN 0198567634 £55.

The book begins with a brief review of

supersymmetry and the construction of the minimal supersymmetric Standard Model and approaches to supersymmetry breaking. It also reviews general non-perturbative methods that led to holomorphy and the Affleck–Dine–Seiberg superpotential as powerful tools for analysing supersymmetric theories. Seiberg

duality is discussed with example applications, paying special attention to its use in understanding dynamical supersymmetry breaking. Alongside an overview of important recent developments in supersymmetry the book covers topics of interest to both formal and phenomenological theorists.

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