

OTHER IMPORTANT TITLES BY NOBEL LAUREATES

Pierre-Gilles de Gennes became professor at the Collège de France in 1971, and participated in STRASCOL (a joint action of Strasbourg, Saclay and Collège de France) on polymer physics. He was awarded the Lorentz Medal and Wolf Prize in 1989. In 1991, he received the Nobel Prize in Physics.



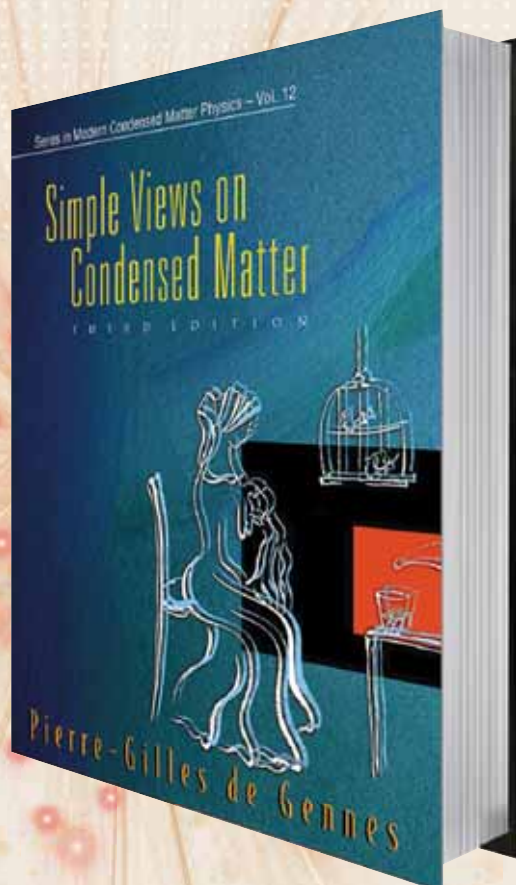
He was then director of the École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris (ESPCI), a post he held from 1976 until his retirement in 2002.

Claude Cohen-Tannoudji won the 1997 Nobel Prize in Physics with Steven Chu and William D. Phillips. They received the award for the development of techniques that use laser light to cool atoms to extremely low temperatures. He was educated at the École Normale Supérieure (ENS), Paris, receiving his doctorate in 1962.



After graduating, he continued to work as a research scientist in the Department of Physics at ENS, while also teaching at the University of Paris VI from 1964 to 1973 and at the Collège de France from 1973.

Georges Charpak was a Polish-born French physicist. He won the 1992 Nobel Prize (Physics) for his invention of subatomic particle detectors, in particular the multi-wire proportional chamber. He received his doctorate in 1954 from Nuclear Physics at the Collège de France, Paris, where he worked in the laboratory of Frédéric Joliot-Curie. In 1959 he joined the staff of CERN (European Organization for Nuclear Research) in Geneva and in 1984 also became Joliot-Curie professor at the School of Advanced Studies in Physics and Chemistry, Paris. He was made a member of the French Academy of Science in 1985.



Series in Modern Condensed Matter Physics – Vol. 12

SIMPLE VIEWS ON CONDENSED MATTER

Third Edition

by **Pierre-Gilles de Gennes** (Collège de France)

Review of the First Edition:

“For amateurs and connoisseurs — interested in physics, chemistry or biology — Pierre-Gilles de Gennes has opened his gentry-style cabinet de curiosités. Miscellaneous products of his inventive industry, including the famous and the unfamous, are brought together in this self-selected collection, accompanied with recent hindsightful remarks of the Nobel laureate.”

Gérard Toulouse, Ecole Normale Supérieure, France

Review of the Second Edition:

“This book surely satisfies the requirements of those interested in this field of physics. On the whole I think that this book can give, especially to a young reader, a certain feeling about the enthusiasm and novelty of condensed matter research during the last three decades.”

Il Nuovo Saggiatore

This volume is a selection of invaluable papers by P-G de Gennes — 1991 Nobel Prize winner in Physics — which have had a long-lasting impact on our understanding of condensed matter. The author has added some afterthoughts to the main papers (explaining their successes or weaknesses), and some current views on each special problem.

576pp	Apr 2003	
978-981-238-278-8	US\$92	£67
978-981-238-282-5 (pbk)	US\$52	£37

PETIT POINT

A Candid Portrait on the Aberrations of Science
by **Pierre-Gilles de Gennes** (*Nobel Laureate in Physics, 1991*)

In this fascinating book, Nobel Prize winner Pierre-Gilles de Gennes wittily captures the lives of personalities from both the academic and the industrial world in delightful bite-size stories. Most of the characters in this collection are like those in Aesop's fables, but in modern-day research settings. The book provides a critical account of aberrations (fortunately rare) of the scientific community. For the young researcher, this book is like a telescope: for seeing other human beings beyond his or her laboratory. For the administrator, this book is like a microscope: for seeing inside the human beings huge and complex structures.

Petit Point is not a book to be devoured in a single sitting. It is one to be savored and reflected upon. It is like a mirror — to be visited from time to time.

80pp Oct 2004
978-981-256-011-7 (pbk) US\$18 £9

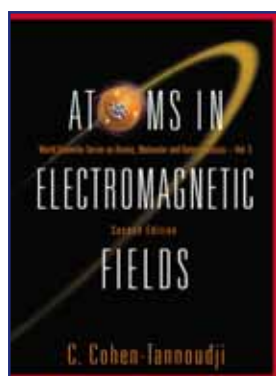


World Scientific Series on Atomic, Molecular and Optical Physics – Vol. 3

ATOMS IN ELECTROMAGNETIC FIELDS

Second Edition

by **C Cohen-Tannoudji** (*Collège de France, Paris*)



"For many applications on the topics of this journal, the absolute unique presentation by Cohen-Tannoudji of his research field will be most valuable."

Laser and Particle Beams

"... The clarity of the exposition, the wide range of topics, and the logic of the presentation make this a valuable teaching reference. This book is highly recommended for physicists and students working on atoms in intense laser fields, laser cooling and trapping and Bose-Einstein condensation."

Optics & Photonics News

This invaluable book presents papers written during the last 40 years by Claude Cohen-Tannoudji and his collaborators on various physical effects which can be observed on atoms interacting with electromagnetic fields. It consists of a personal selection of review papers, lectures given at schools, as well as original experimental and theoretical papers.

768pp Nov 2004
978-981-238-942-8 US\$155 £89
978-981-256-019-3 (pbk) US\$69 £39

ADVANCES IN ATOMIC PHYSICS

An Overview

by **Claude Cohen-Tannoudji** & **David Guery-Odelin** (*Laboratoire Kastler Brossel, France*)

This book presents a comprehensive overview of the spectacular advances seen in atomic physics during the last 50 years. The authors explain how such progress was possible by highlighting connections between developments that occurred at different times. They discuss the new perspectives and the new research fields that look promising. The emphasis is placed, not on detailed calculations, but rather on physical ideas. Combining both theoretical and experimental considerations, the book will be of interest to a wide range of students, teachers and researchers in quantum and atomic physics.

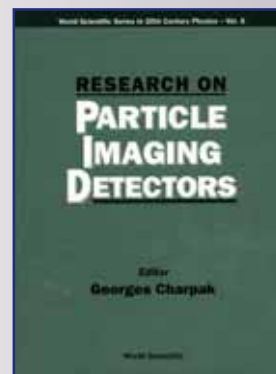
400pp (approx.) Fall 2010
978-981-277-496-5 US\$88 £48
978-981-277-497-2 (pbk) US\$38 £21

World Scientific Series in 20th Century Physics – Vol. 6

RESEARCH ON PARTICLE IMAGING DETECTORS

edited by **Georges Charpak** (*CERN*)

Much instrumentation has been developed for imaging the trajectories of elementary particles produced in high energy collisions. Since 1968, gaseous detectors, beginning with multiwire chambers and drift chambers, have been used for the visualisation of particle trajectories and the imaging of X-rays, neutrons, hard gamma rays, beta rays and ultraviolet photons.



This book commemorates the groundbreaking research leading to the evolution of such detectors carried out at CERN by Georges Charpak, Nobel Prize winner for Physics in 1992. Besides collecting his key papers, the book also includes original linking commentary which sets his work in the context of other worldwide research.

688pp Jul 1995
978-981-02-1902-4 US\$86 £60
978-981-02-1903-1 (pbk) US\$61 £42

For orders or enquiries, please contact any of our offices below or visit us at: www.worldscientific.com

- **NORTH & SOUTH AMERICA** **World Scientific Publishing Co. Inc.**
27 Warren Street, Suite 401-402, Hackensack, NJ 07601, USA Toll-free fax: 1 888 977 2665 Toll-free: 1 800 227 7562 Email: sales@wspc.com
- **EUROPE & THE MIDDLE EAST** **World Scientific Publishing (UK) Ltd.**
c/o Marston Book Services, P O Box 269, Abingdon, Oxon OX14 4YN, UK Fax: 44 (0) 123 546 5555 Tel: 44 (0) 123 546 5500 Email: direct.orders@marston.co.uk
- **ASIA & THE REST OF THE WORLD** **World Scientific Publishing Co. Pte. Ltd.**
Farrer Road, P O Box 128, SINGAPORE 912805 Fax: 65 6467 7667 Tel: 65 6466 5775 Email: sales@wspc.com.sg