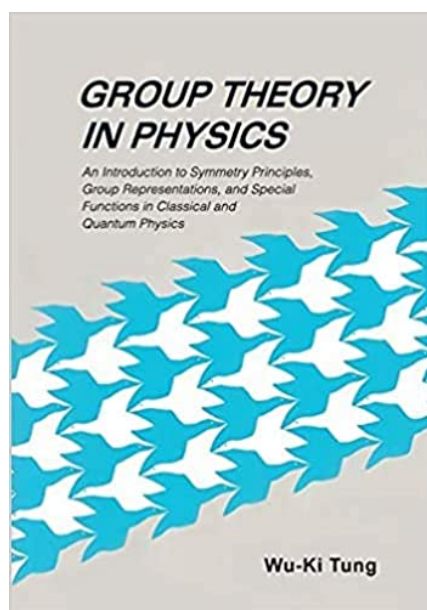


Group Theory In Physics: An Introduction To Symmetry Principles, Group Representations, And Special Functions In Classical And Quantum Physics



Author: Wu-Ki Tung

Publisher: World Scientific
(Exclusively distributed by
Dev Publishers &
Distributors)

Edition: First

Year: 2021

Dimension: 15 x 23 cm

No. of Pages: 336

Weight: 550 gm

ISBN: 9780000989758

Binding: Softcover

Territory: South Asia

Price: Rs 1995

About the Book

An introductory text book for graduates and advanced undergraduates on group representation theory. It emphasizes group theory's role as the mathematical framework for describing symmetry properties of classical and quantum mechanical systems.

Familiarity with basic group concepts and techniques is invaluable in the education of a modern-day physicist. This book emphasizes general features and methods which demonstrate the power of the group-theoretical approach in exposing the systematics of physical systems with associated symmetry.

Particular attention is given to pedagogy. In developing the theory, clarity in presenting the main ideas and consequences is given the same priority as comprehensiveness and strict rigor. To preserve the integrity of the mathematics, enough technical information is included in the appendices to make the book almost self-contained.

About the Author

Wu-Ki Tung (Michigan State University, USA)

Table of Content

- Basic Group Theory
- Group Representations
- General Properties of Irreducible Vectors and Operators
- Representations of the Symmetric Groups
- One-Dimensional Continuous Groups
- Rotations in Three-Dimensional Space — The Group $SO(3)$
- The Group $SU(2)$ and More About $SO(3)$
- Euclidean Groups in Two- and Three-Dimensional Space
- The Lorentz and Poincaré Groups, and Space-Time Symmetries
- Space Inversion Invariance
- Time Reversal Invariance
- Finite-Dimensional Representations of the Classical Groups

Dev Publishers
& Distributors

STAY CONNECTED

Second Floor, Prakashdeep 22, Delhi Medical
Association Road, Darya Ganj, New Delhi – 110 002

Phone No : [+91-11-4357-2647](tel:+91-11-4357-2647)

Email ID : info@devbooks.co.in

Website : devbooks.co.in