

Physics of Atoms and Molecules

second edition

**B.H. Bransden &
C.J. Joachain**

Prentice
Hall

Physics Of Atoms And Molecules 2nd Edition

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Physics Of Atoms And Molecules 2nd Edition:

Physics of Atoms and Molecules B. H. Bransden, Charles Jean Joachain, 2003 The study of atomic and molecular physics is a key component of undergraduate courses in physics because of its fundamental importance to the understanding of many aspects of modern physics The aim of this new edition is to provide a unified account of the subject within an undergraduate framework taking the opportunity to make improvements based on the teaching experience of users of the first edition and cover important new developments in the subject Key features of this new edition Revised material on molecular structure and spectra Extended material on electronic and atomic collisions A new chapter describing applications based on the use of the maser and the laser including laser spectroscopy laser cooling and trapping of atoms Bose Einstein condensation atom lasers and atomic systems in intense laser fields A new chapter describing other applications including magnetic resonance atom optics atoms in cavities ions in traps atomic clocks and astrophysics Revised appendices include new material on molecules and updated tables of physical constants Solutions of selected problems B H Bransden is Emeritus Professor of Theoretical Physics at the University of Durham C J Joachain is Professor of Theoretical Physics at the University of Brussels They are co authors of Quantum Mechanics also published by Prentice Hall

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Mathematical Methods for Physicists George Brown Arfken, George B. Arfken, Hans J. Weber, Frank E. Harris, 2013 Table of Contents Mathematical Preliminaries Determinants and Matrices Vector Analysis Tensors and Differential Forms Vector Spaces Eigenvalue Problems Ordinary Differential Equations Partial Differential Equations Green's Functions Complex Variable Theory Further Topics in Analysis Gamma Function Bessel Functions Legendre Functions Angular Momentum Group Theory More Special Functions Fourier Series Integral Transforms Periodic Systems Integral Equations Mathieu Functions Calculus of Variations Probability and Statistics

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