

PHYSICS

PARTS
1 and 2

DAVID HALLIDAY AND ROBERT RESNICK



THIRD EDITION

Combined Edition

BOOKS BY HALLIDAY (D.)
Introductory Nuclear Physics. Second Edition

BOOKS BY HALLIDAY (D.) AND RESNICK (R.)
Physics, Parts I and II Combined, Third Edition
Physics, Part II, Third Edition
Fundamentals of Physics

BOOKS BY RESNICK (R.) AND HALLIDAY (D.)
Physics, Part I, Third Edition

BOOKS BY R. RESNICK
Introduction to Special Relativity
Available in Paper Edition
Basic Concepts in Relativity and
Early Quantum Theory
Available in Cloth and Paper Editions

BY ROBERT EISBERG AND ROBERT RESNICK
Quantum Physics of Atoms, Molecules,
Solids, Nuclei, and Particles

physics

*PARTS I and II, COMBINED
THIRD EDITION*

*PROFESSOR OF PHYSICS
UNIVERSITY OF PITTSBURGH*

DAVID HALLIDAY

*PROFESSOR OF PHYSICS
RENSSELAER POLYTECHNIC INSTITUTE*

ROBERT RESNICK

JOHN WILEY & SONS

NEW YORK CHICHESTER BRISBANE TORONTO SINGAPORE

SUPPLEMENTS

STUDENT STUDY GUIDE REVISED to accompany PHYSICS, 3RD and
FUNDAMENTALS OF PHYSICS, 2ND and FUNDAMENTALS OF PHYSICS,
2ND EXTENDED

Stanley A. Williams, Iowa State University
Kenneth L. Brownstein, University of Maine
Robert L. Gray, University of Massachusetts

Developed for student use with this text and also FUNDAMENTALS OF
PHYSICS, 2ND. Includes learning objectives carefully and thoroughly developed,
plus exercises in problem solving for each chapter of the textbooks.

SELECTED SOLUTIONS FOR PHYSICS, 3RD REVISED

David Halliday, University of Pittsburgh
Robert Resnick, Rensselaer Polytechnic Institute
Edward Derringh, Wentworth Institute

Contains solutions to selected problems for student use with PHYSICS, 3RD.

PHYSICS PROBLEMS FOR PROGRAMMABLE CALCULATORS

J. Richard Christman, U.S. Coast Guard Academy
David Halliday, University of Pittsburgh
Robert Resnick, Rensselaer Polytechnic Institute

Designed for use with Halliday and Resnick PHYSICS, 3RD and
FUNDAMENTALS OF PHYSICS, 2ND, as a supplement demonstrating to
students the solution of physics problems using the calculator.

Copyright © 1960, 1962, 1966, 1978, by John Wiley & Sons, Inc.

All rights reserved. Published simultaneously in Canada.

Reproduction or translation of any part of this work beyond that
permitted by Sections 107 or 108 of the 1976 United States Copy-
right Act without the permission of the copyright owner is unlaw-
ful. Requests for permission or further information should be
addressed to the Permissions Department, John Wiley & Sons, Inc.

Library of Congress Cataloging in Publication (Revised)

Halliday, David-
Physics.

Published in 1960 and 1962 under title: Physics for
students of science and engineering.

Includes bibliographical references and index.

1. Physics I. Resnick, Robert, joint author

II. Title.
QC21.2.R47 1977 530 77-1295
ISBN 0-471-34530-X

18 17 16