

# Fundamentals Of Optics By Khanna And Gulati Pdf

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*The CUMULATIVE BOOK INDEX - 1961*

FUNDAMENTALS OF OPTICS,  
SECOND EDITION - SINGH, DEVRAJ  
2015-08-31

HIS THOROUGHLY REVISED AND UPDATED TEXT, NOW IN ITS SECOND EDITION, IS PRIMARILY INTENDED AS A TEXTBOOK FOR UNDERGRADUATE STUDENTS OF PHYSICS. THE BOOK PROVIDES A SOUND UNDERSTANDING OF THE FUNDAMENTAL CONCEPTS OF OPTICS ADOPTING AN INTEGRATED APPROACH TO THE PRINCIPLES OF OPTICS. IT COVERS THE REQUIREMENTS OF SYLLABI OF UNDERGRADUATE

STUDENTS IN PHYSICS AND ENGINEERING IN INDIAN UNIVERSITIES. THE BOOK INCLUDES A WIDE RANGE OF INTERESTING TOPICS SUCH AS FERMAT'S PRINCIPLE, GEOMETRICAL OPTICS, DISPERSION, INTERFERENCE, DIFFRACTION AND POLARIZATION OF LIGHT WAVES, OPTICAL INSTRUMENTS AND LENS ABERRATIONS. IT ALSO DISCUSSES ELECTROMAGNETIC WAVES, FUNDAMENTALS OF VIBRATIONS AND WAVE MOTION. THE TEXT EXPLAINS THE CONCEPTS THROUGH EXTENSIVE USE OF LINE DRAWINGS AND GIVES FULL DERIVATIONS OF ESSENTIAL RELATIONS. THE TOPICS ARE DEALT WITH IN A

WELL-ORGANIZED SEQUENCE WITH PROPER EXPLANATIONS ALONG WITH SIMPLE MATHEMATICAL FORMULATIONS. NEW TO THE SECOND EDITION •

INCORPORATES TWO NEW CHAPTERS, I.E., 'FUNDAMENTALS OF VIBRATIONS', AND 'WAVE MOTION' • INCLUDES SEVERAL WORKED-OUT EXAMPLES TO HELP STUDENTS REINFORCE THEIR COMPREHENSION OF THEORY • PROVIDES FORMULAE AT A GLANCE AND CONCEPTUAL QUESTIONS WITH THEIR ANSWERS FOR QUICK REVISION KEY FEATURES • PROVIDES SEVERAL SOLVED NUMERICAL PROBLEMS TO HELP STUDENTS COMPREHEND THE CONCEPTS WITH EASE • INCLUDES MULTIPLE CHOICE QUESTIONS AND THEORETICAL QUESTIONS TO HELP STUDENTS CHECK THEIR UNDERSTANDING OF THE SUBJECT MATTER • CONTAINS UNSOLVED NUMERICAL PROBLEMS WITH ANSWERS TO BUILD PROBLEM-SOLVING SKILLS  
*MECHANICS* - DS MATHUR 2000-10

THE BOOK PRESENTS A COMPREHENSIVE STUDY OF IMPORTANT TOPICS IN MECHANICS OF PURE AND APPLIED SCIENCES. IT PROVIDES KNOWLEDGE OF SCALAR AND VECTOR IN OPTIMUM DEPTH TO MAKE THE STUDENTS UNDERSTAND THE CONCEPTS OF MECHANICS IN SIMPLE, COHERENT AND LUCID MANNER AND GRASP ITS PRINCIPLES & THEORY. IT CATERES TO THE REQUIREMENTS OF STUDENTS OF B.Sc. PASS AND HONOURS COURSES. STUDENTS OF ENGINEERING DISCIPLINES AND THE ONES ASPIRING FOR COMPETITIVE EXAMS SUCH AS AIME AND OTHERS, WILL ALSO FIND IT USEFUL

FOR THEIR PREPARATIONS.

**INTERNATIONAL BOOKS IN PRINT** - 1992

*OPTICS AND SPECTROSCOPY* - R MURUGESHAN | KIRUTHIGA SIVAPRASATH 2003

THIS BOOK HAS BEEN WRITTEN FOR THE STUDENTS OF B.Sc., PHYSICS OF VARIOUS INDIAN UNIVERSITIES. THE BOOK COVERS THE SYLLABI, PRESCRIBED BY MADRAS, BHARATHIYAR, BHARATHIDHASAN, MADURAI KAMARAJ AND MANONMANIAM SUNDARANAR UNIVERSITIES. SI SYSTEM OF UNITS HAS BEEN USED THROUGHOUT THE TEXT. PROPER CARE HAS BEEN TAKEN IN DEALING WITH THE SUBJECT WITH MODERN OUTLOOK. A LARGE NUMBER OF QUESTIONS AND PROBLEMS HAVE BEEN GIVEN AT THE END OF EACH CHAPTER. STUDENTS SHOULD ATTEMPT TO TACKLE THEM PROPERLY FOR BETTER INSIGHT AND UNDERSTANDING OF THE SUBJECT.

**ELEMENTARY LINEAR ALGEBRA** - STEPHEN ANDRILLI 2010-02-04

ELEMENTARY LINEAR ALGEBRA DEVELOPS AND EXPLAINS IN CAREFUL DETAIL THE COMPUTATIONAL TECHNIQUES AND FUNDAMENTAL THEORETICAL RESULTS CENTRAL TO A FIRST COURSE IN LINEAR ALGEBRA. THIS HIGHLY ACCLAIMED TEXT FOCUSES ON DEVELOPING THE ABSTRACT THINKING ESSENTIAL FOR FURTHER MATHEMATICAL STUDY THE AUTHORS GIVE EARLY, INTENSIVE ATTENTION TO THE SKILLS NECESSARY TO MAKE STUDENTS COMFORTABLE WITH MATHEMATICAL


PROOFS. THE TEXT BUILDS A GRADUAL AND SMOOTH TRANSITION FROM COMPUTATIONAL RESULTS TO GENERAL THEORY OF ABSTRACT VECTOR SPACES. IT ALSO PROVIDES FLEXIBLE COVERAGE OF PRACTICAL APPLICATIONS, EXPLORING A COMPREHENSIVE RANGE OF TOPICS. ANCILLARY LIST: \* MAPLE ALGORITHMIC TESTING- MAPLE TA- WWW.MAPLESOFT.COM INCLUDES A WIDE VARIETY OF APPLICATIONS, TECHNOLOGY TIPS AND EXERCISES, ORGANIZED IN CHART FORMAT FOR EASY REFERENCE MORE THAN 310 NUMBERED EXAMPLES IN THE TEXT AT LEAST ONE FOR EACH NEW CONCEPT OR APPLICATION EXERCISE SETS ORDERED BY INCREASING DIFFICULTY, MANY WITH MULTIPLE PARTS FOR A TOTAL OF MORE THAN 2135 QUESTIONS PROVIDES AN EARLY INTRODUCTION TO EIGENVALUES/EIGENVECTORS A STUDENT SOLUTIONS MANUAL, CONTAINING FULLY WORKED OUT SOLUTIONS AND INSTRUCTORS MANUAL AVAILABLE

*GEOMETRICAL AND PHYSICAL OPTICS* - R.S. LONGHURST 1986  
 FIRST PUBLISHED IN INDIA IN 1986, THIS BOOK IS INTENDED PRIMARILY FOR UNDERGRADUATE STUDENTS OF PHYSICS. IT WILL ALSO BE USEFUL FOR POSTGRADUATE STUDENTS SPECIALISING IN OPTICS. THIS REVISED EDITION INCORPORATES NEW MATERIAL, INCLUDING THE TECHNIQUES OF MATRIX ALGEBRA AND FOURIER METHODS IN SOLVING PROBLEMS IN OPTICS. THE CHAPTER ON PHOTOMETRY HAS BEEN REVISED.

IMPORTANT PROBLEMS HAVE BEEN OUTLINED ALONG WITH COMMENTS, AT THE END OF THE BOOK.

**VIBRATIONS AND WAVES** - A.P. FRENCH 2017-12-21

THE M.I.T. INTRODUCTORY PHYSICS SERIES IS THE RESULT OF A PROGRAM OF CAREFUL STUDY, PLANNING, AND DEVELOPMENT THAT BEGAN IN 1960. THE EDUCATION RESEARCH CENTER AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (FORMERLY THE SCIENCE TEACHING CENTER) WAS ESTABLISHED TO STUDY THE PROCESS OF INSTRUCTION, AIDS THERETO, AND THE LEARNING PROCESS ITSELF, WITH SPECIAL REFERENCE TO SCIENCE TEACHING AT THE UNIVERSITY LEVEL. GENEROUS SUPPORT FROM A NUMBER OF FOUNDATIONS PROVIDED THE MEANS FOR ASSEMBLING AND MAINTAINING AN EXPERIENCED STAFF TO CO-OPERATE WITH MEMBERS OF THE INSTITUTE'S PHYSICS DEPARTMENT IN THE EXAMINATION, IMPROVEMENT, AND DEVELOPMENT OF PHYSICS CURRICULUM MATERIALS FOR STUDENTS PLANNING CAREERS IN THE SCIENCES. AFTER CAREFUL ANALYSIS OF OBJECTIVES AND THE PROBLEMS INVOLVED, PRELIMINARY VERSIONS OF TEXTBOOKS WERE PREPARED, TESTED THROUGH CLASSROOM USE AT M.I.T. AND OTHER INSTITUTIONS, RE-EVALUATED, REWRITTEN, AND TRIED AGAIN. ONLY THEN WERE THE FINAL MANUSCRIPTS UNDERTAKEN.

1995 - 

**SOLUTIONS MANUAL TO ACCOMPANY**

**JENKINS/WHITE : FUNDAMENTALS OF OPTICS** - HARVEY ELLIOTT WHITE  
1976

**PHYSICS FOR DEGREE STUDENTS FOR B.Sc. 3RD YEAR** - ARORA C.L. & HEMNE P.S. 2014  
SECTION I RELATIVITY SECTION II QUANTUM MECHANICS SECTION III ATOMIC PHYSICS SECTION IV MOLECULAR PHYSICS SECTION V NUCLEAR PHYSICS SECTION VI SOLID STATE PHYSICS SECTION VII SOLID STATE DEVICES SECTION VIII ELECTRONICS INDEX

**A SECRET SERVICE** - JOY JENKINS  
2021-02-11

CARTER OWENS, DAUGHTER OF A SECRET SERVICE AGENT, IS TRAINED TO DISASSEMBLE ANY WEAPON, ANY SITUATION, AND ANYONE. HER BITING SARCASM AND RAZOR-SHARP MIND MAKE HER IMPOSSIBLE TO BEAT IN A WORD FIGHT AND WHEN TALKING DOESN'T WORK, SHE USES HER FISTS. SHE ATTENDS HAMILTON PREP, WASHINGTON D.C.'S MOST PRESTIGIOUS HIGH SCHOOL, WHERE EVERYONE IS RELATED TO SOMEONE IN POWER, EXCEPT HER. WHEN HAMILTON PREP RECEIVES A FLOOD OF NEW STUDENTS, CARTER'S ROLE AS SOCIAL OUTCAST CHANGES WHEN SHE MAKES TWO UNEXPECTED FRIENDS. FRIENDS WHO ARE HIDING A SECRET. AS CARTER UNCOVERS THE TRUTH, SHE CONFRONTS CHALLENGES SHE IS UNEQUIPPED TO HANDLE AND FINDS HERSELF IN A DANGEROUS SITUATION. FOR A GIRL TRAINED TO SEE EVERYTHING, CARTER

NEVER SAW THIS COMING.  
**INDIAN BOOKS** - 1971

**AN INTRODUCTION TO LATTICE DYNAMICS** - AJOY K. GHATAK 1972

**INDIAN BOOK INDUSTRY** - 1981

*LASERS* - K. THYAGARAJAN 1981-10

**AUTHOR CATALOGUE OF PRINTED BOOKS IN EUROPEAN LANGUAGES ...: C-E** - CALCUTTA (INDIA). IMPERIAL LIBRARY 1941

*A TEXTBOOK OF OPTICS* - N SUBRAHMANYAM ET. AL 2004  
THIS TEXTBOOK HAS BEEN DESIGNED TO PROVIDE NECESSARY FOUNDATION IN OPTICS WHICH WOULD NOT ONLY ACQUAINT THE STUDENT WITH THE SUBJECT BUT WOULD ALSO PREPARE FOR AN INTENSIVE STUDY OF ADVANCED TOPICS IN OPTICS AT A LATER STAGE. WITH AN EMPHASIS ON CONCEPTS, MATHEMATICAL DERIVATIONS HAVE BEEN KEPT AT THE MINIMUM. THIS TEXTBOOK HAS BEEN PRIMARILY WRITTEN FOR UNDERGRADUATE STUDENTS OF B.Sc. PHYSICS AND WOULD ALSO BE A USEFUL RESOURCE FOR ASPIRANTS APPEARING FOR COMPETITIVE EXAMINATIONS.

**HANDBOOK OF RESEARCH ON TECHNO-ENTREPRENEURSHIP, SECOND EDITION** - FRANÇOIS THÉRIEN 2014-01-31  
WITH CHAPTERS FOCUSING ON CHINA, INDIA, SOUTHEAST ASIA AND SOUTH AMERICA, THE HANDBOOK EXPLORES VIEWS ON THE NEW HOT SPOTS IN

TECHNO-ENTREPRENEURSHIP  
DEVELOPMENT.

PHYSICS FOR DEGREE STUDENTS  
B.SC.FIRST YEAR - C L ARORA 2010

FOR B.SC 1 YR STUDENTS AS PER THE  
NEW SYLLABUS OF UGC CURRICULUM  
FOR ALL INDIAN UNIVERSITIES. THE  
PRESENT BOOK HAS TWO SECTIONS.  
SECTION I COVERS 1 WHICH INCLUDES  
CHAPTERS ON MECHANICS,  
OSCILLATIONS AND PROPERTIES OF  
MATTER. SECTION II COVERS COURSE 2  
WHICH INCLUDES CHAPTERS ON  
ELECTRICITY, MAGNETISM AND  
ELECTROMAGNETIC THEORY.

OPTICAL ELECTRONICS - AJAY KUMAR  
GHATAK 1989-07-20

INTENDED FOR SENIOR UNDERGRADUATE  
STUDENTS, A COMPREHENSIVE ACCOUNT  
OF OPTICAL ELECTRONICS INCLUDES THE  
BASIC PRINCIPLES CONCERNING  
ELECTROMAGNETIC WAVES, LASER  
THEORY, OPTICAL WAVE GUIDES, FIBER  
AND INTEGRATED OPTICS.

PHYSICS FOR DEGREE STUDENTS B.SC  
SECOND YEAR - C L ARORA 2013

FOR B.SC. SECOND YEAR STUDENTS AS  
PER UGC MODEL CURRICULUM (FOR  
ALL INDIAN UNIVERSITIES). THE BOOK  
IS PRESENTED IN A COMPREHENSIVE WAY  
USING SIMPLE LANGUAGE. THE SEQUENCE  
OF ARTICLES IN EACH CHAPTER ENABLES  
THE STUDENTS TO UNDERSTAND THE  
GRADUAL DEVELOPMENT OF THE  
SUBJECT. A LARGE NUMBER OF  
ILLUSTRATIONS, PICTURES AND  
INTERESTING EXAMPLES HAVE BEEN GIVEN

**FUNDAMENTALS OF PHYSICS II - R.**  
**SHANKAR 2016-01-01**

EXPLAINS THE FUNDAMENTAL CONCEPTS

OF NEWTONIAN MECHANICS, SPECIAL  
RELATIVITY, WAVES, FLUIDS,  
THERMODYNAMICS, AND STATISTICAL  
MECHANICS. PROVIDES AN  
INTRODUCTION FOR COLLEGE-LEVEL  
STUDENTS OF PHYSICS, CHEMISTRY, AND  
ENGINEERING, FOR AP PHYSICS  
STUDENTS, AND FOR GENERAL READERS  
INTERESTED IN ADVANCES IN THE  
SCIENCES. IN VOLUME II, SHANKAR  
EXPLAINS ESSENTIAL CONCEPTS,  
INCLUDING ELECTROMAGNETISM, OPTICS,  
AND QUANTUM MECHANICS. THE BOOK  
BEGINS AT THE SIMPLEST LEVEL,  
DEVELOPS THE BASICS, AND REINFORCES  
FUNDAMENTALS, ENSURING A SOLID  
FOUNDATION IN THE PRINCIPLES AND  
METHODS OF PHYSICS.

B.SC. PRACTICAL PHYSICS - CL  
ARORA 2001

B.SC. PRACTICAL PHYSICS

THE UNITED STATES CATALOG -  
1928

**LSC FUNDAMENTALS OF OPTICS -**  
**FRANCIS JENKINS 2001-12-03**

**ALLIED PHYSICS PAPER I & II - R**  
**MURUGESAN 2005**

PAPER-I | WAVES & OSCILLATIONS |  
PROPERTIES OF MATTERS | THERMAL  
PHYSICS | ELECTRICITY AND  
MAGNETISM | GEOMETRICAL OPTICS |  
PAPER-II | PHYSICAL OPTICS | ATOMIC  
PHYSICS | NUCLEAR PHYSICS |  
ELEMENTS OF RELATIVITY AND  
QUANTUM MECHANICS | ELECTRONICS  
PRACTICAL PHYSICS | YOUNG'S  
MODULUS BY NON-UNIFORM BENDING |  
YOUNG'S MODULUS (E) NON-UNIFORM

BENDING | RIGIDITY MODULUS (STATIC TORSION METHOD) | RIGIDITY MODULUS BY TOSICENAL OSCILLATIONS | SURFACE TENSION AND INTERFACIAL SURFACE TENSION DROP WEIGHT METHOD | COMPARISON OF VISCOSITIES OF TWO LIQUIDS—BURETTE METHOD | SPECIFIC HEAT CAPACITY OF A LIQUID | SONOMETER— FREQUENCY OF A.C. MAINS | DETERMINATION OF RADIUS OF CURVATURE | AIR WEDGE — THICKNESS OF A WIRE | SPECTROMETER-DIFFRACTION ON GRAVITY- WEVELENGTH OF HG LINES | POTENTIOMETER-VOLTMETER CALIBRATION | POST OFFICE BOX- MEASURE OF RESISTANCE AND SPECIFIC RESISTANCE | BALLISTIC GALVANOMETER FIGURE OF MERIT | LOGIC GATES AND, OR, NOT | ZENER DIODE CHARACTERISTICS | NAND GATE AS A UNIVERSAL GATE  
**FUNDAMENTALS OF OPTICS** - D. R. KHANNA 1984

NATIONAL CATALOGUE OF UNIVERSITY LEVEL BOOKS, 1971 - 1972

**APPLIED SCIENCE & TECHNOLOGY INDEX** - 1977

**ELECTRICITY AND MAGNETISM** - A. S. MAHAJAN 1992

INDIAN NATIONAL BIBLIOGRAPHY - B. S. KESAVAN 1964

*A TEXTBOOK OF ENGINEERING PHYSICS* - M N AVADHANULU 1992

A TEXTBOOK OF ENGINEERING PHYSICS IS WRITTEN WITH TWO DISTINCT OBJECTIVES: TO PROVIDE A SINGLE SOURCE OF INFORMATION FOR ENGINEERING UNDERGRADUATES OF DIFFERENT SPECIALIZATIONS AND PROVIDE THEM A SOLID BASE IN PHYSICS. SUCCESSIVE EDITIONS OF THE BOOK INCORPORATED TOPIC AS REQUIRED BY STUDENTS PURSUING THEIR STUDIES IN VARIOUS UNIVERSITIES. IN THIS NEW EDITION THE CONTENTS ARE FINE-TUNED, MODERNIZED AND UPDATED AT VARIOUS STAGES.

**ELEMENTS OF PROPERTIES OF MATTER** - DS MATHUR 2008

THE BOOK IS A COMPREHENSIVE WORK ON PROPERTIES OF MATTER WHICH INTRODUCES THE STUDENTS TO THE FUNDAMENTALS OF THE SUBJECT. IT ADOPTS A UNIQUE 'AB INITIO' APPROACH TO THE PRESENTATION OF MATTER- SOLIDS, LIQUIDS AND GASSES- WITH EXTENSIVE USAGE OF CALCULUS THROUGHOUT THE BOOK. FOR EACH TOPIC, THE FOCUS IS ON OPTIMUM BLEND OF THEORY AS WELL AS PRACTICAL APPLICATION. EXAMPLES AND EXTENSIVE EXERCISES SOLVED WITH THE LOGARITHMS REINFORCE THE CONCEPTS AND STIMULATE THE DESIRE AMONG USERS TO TEST HOW FAR THEY HAVE GRASPED AND IMBIBED THE BASIC PRINCIPLES. IT PRIMARILY CATERS TO THE UNDERGRADUATE COURSES OFFERED IN INDIAN UNIVERSITIES.

INDIAN BOOKS IN PRINT - 2003

*AN INTRODUCTION TO FIBER OPTICS* - AJAY GHATAK 1998-06-28

TEXTBOOK ON THE PHYSICAL PRINCIPLES OF OPTICAL FIBERS - FOR ADVANCED UNDERGRADUATES AND GRADUATES IN PHYSICS OR ELECTRICAL ENGINEERING.

**IMPEX REFERENCE CATALOGUE OF INDIAN BOOKS - 1960**

*HALLIDAY AND RESNICK'S PRINCIPLES OF PHYSICS* - DAVID HALLIDAY  
2020-08-12

THE CLASSIC TEXTBOOK THAT BUILDS SCIENTIFIC LITERACY AND LOGICAL REASONING ABILITY PRINCIPLES OF PHYSICS, NOW IN ITS 11TH EDITION, IS RENOWNED FOR TEACHING STUDENTS, NOT JUST THE BASIC CONCEPTS OF PHYSICS, BUT ALSO THE SUPERIOR PROBLEM-SOLVING SKILLS NEEDED TO APPLY WHAT THEY HAVE LEARNED. WITH THEMATIC MODULES AND CLEAR LEARNING OBJECTIVES, STUDENTS WILL NEVER BE LEFT ASKING, "WHY AM I LEARNING THIS?" END-OF-CHAPTER QUESTIONS RANGE FROM THE MATHEMATICALLY CHALLENGING TO THE CONCEPTUALLY COMPLEX, TO TRULY INSTILL IN STUDENTS A WORKING

KNOWLEDGE OF CALCULUS-BASED PHYSICS. THIS NEW EDITION FEATURES PROBLEMS THAT REPRESENT A "BEST OF" SELECTION REACHING ALL THE WAY BACK TO THE BOOK'S FIRST EDITION. REPEATEDLY RECOMMENDED AND ACQUAINTED WITH INTERESTING QUESTIONS FROM ALL THE PRINCIPLES OF PHYSICS EDITIONS WILL CHALLENGE AND STIMULATE STUDENTS AS THEY LEARN HOW THE WORLD WORKS.

ALTOGETHER, THIS USER-FRIENDLY TEXT IS PEERLESS IN ITS ABILITY TO HELP STUDENTS BUILD SCIENTIFIC LITERACY AND PHYSICS SKILL.

**IMPEX SUPPLEMENT - 1960**

- KIRUTHIGA SIVAPRASATH  
2012

THIS BOOK IS WRITTEN TO MEET THE REQUIREMENTS OF FIRST SEMESTER B.SC. PHYSICS MAJOR STUDENTS OF MADRAS UNIVERSITY, CHENNAI, TAMIL NADU. THE SUBJECT MATTER IN THIS BOOK HAS BEEN ASTUTELY DEVELOPED KEEPING IN VIEW THE ACTUAL DIFFICULTIES FACED BY THE STUDENTS WHO HAIL MOSTLY FROM RURAL AREAS OF TAMIL NADU.