

AN INTRODUCTION TO MECHANICS

2014

THIS SECOND EDITION IS IDEAL FOR CLASSICAL MECHANICS COURSES FOR FIRST AND SECOND YEAR UNDERGRADUATES WITH FOUNDATION SKILLS IN MATHEMATICS

AN INTRODUCTION TO MECHANICS

2010-05-06

A CLASSIC TEXTBOOK ON THE PRINCIPLES OF NEWTONIAN MECHANICS FOR UNDERGRADUATE STUDENTS ACCOMPANIED BY NUMEROUS WORKED EXAMPLES AND PROBLEMS

INTRODUCTION TO MECHANICS, SECOND EDITION

2013

THE TEXTBOOK INTRODUCTION TO CLASSICAL MECHANICS AIMS TO PROVIDE A CLEAR AND CONCISE SET OF LECTURES THAT TAKE ONE FROM THE INTRODUCTION AND APPLICATION OF NEWTON'S LAWS UP TO HAMILTON'S PRINCIPLE OF STATIONARY ACTION AND THE LAGRANGIAN MECHANICS OF CONTINUOUS SYSTEMS AN EXTENSIVE SET OF ACCESSIBLE PROBLEMS ENHANCES AND EXTENDS THE COVERAGE IT SERVES AS A PREQUEL TO THE AUTHOR'S RECENTLY PUBLISHED BOOK ENTITLED INTRODUCTION TO ELECTRICITY AND MAGNETISM BASED ON AN INTRODUCTORY COURSE TAUGHT SOME TIME AGO AT STANFORD WITH OVER 400 STUDENTS ENROLLED BOTH LECTURES ASSUME A GOOD CONCURRENT COURSE IN CALCULUS AND FAMILIARITY WITH BASIC CONCEPTS IN PHYSICS THE DEVELOPMENT IS OTHERWISE SELF-CONTAINED AS AN AID FOR TEACHING AND LEARNING AND AS WAS PREVIOUSLY DONE WITH THE PUBLICATION OF INTRODUCTION TO ELECTRICITY AND MAGNETISM SOLUTIONS TO PROBLEMS THIS ADDITIONAL BOOK PROVIDES THE SOLUTIONS TO THE PROBLEMS IN THE TEXT INTRODUCTION TO CLASSICAL MECHANICS

INTRODUCTION TO CLASSICAL MECHANICS: SOLUTIONS TO PROBLEMS

2020-08-24

THE AUTHOR HAS PUBLISHED TWO TEXTS ON CLASSICAL PHYSICS INTRODUCTION TO CLASSICAL MECHANICS AND INTRODUCTION TO ELECTRICITY AND MAGNETISM BOTH MEANT FOR INITIAL ONE-QUARTER PHYSICS COURSES THE LATTER IS BASED ON A COURSE TAUGHT AT STANFORD SEVERAL YEARS AGO WITH OVER 400 STUDENTS ENROLLED THESE LECTURES AIMED AT THE VERY BEST STUDENTS ASSUME A GOOD CONCURRENT COURSE IN CALCULUS THEY ARE OTHERWISE SELF-CONTAINED BOTH TEXTS CONTAIN AN EXTENSIVE SET OF ACCESSIBLE PROBLEMS THAT ENHANCES AND EXTENDS THE COVERAGE AS AN AID TO TEACHING AND LEARNING THE SOLUTIONS TO THESE PROBLEMS HAVE NOW BEEN PUBLISHED IN ADDITIONAL TEXTS A THIRD PUBLISHED TEXT COMPLETES THE FIRST YEAR INTRODUCTION TO PHYSICS WITH A SET OF LECTURES ON INTRODUCTION TO QUANTUM MECHANICS THE VERY SUCCESSFUL THEORY OF THE MICROSCOPIC WORLD THE SCHRÖDINGER EQUATION IS MOTIVATED AND PRESENTED SEVERAL APPLICATIONS ARE EXPLORED INCLUDING SCATTERING AND TRANSITION RATES THE APPLICATIONS ARE EXTENDED TO INCLUDE QUANTUM ELECTRODYNAMICS AND QUANTUM STATISTICS THERE IS A DISCUSSION OF QUANTUM MEASUREMENTS THE LECTURES THEN ARRIVE AT A FORMAL PRESENTATION OF QUANTUM THEORY TOGETHER WITH A SUMMARY OF ITS POSTULATES A CONCLUDING CHAPTER PROVIDES A BRIEF INTRODUCTION TO RELATIVISTIC QUANTUM MECHANICS AN EXTENSIVE SET OF ACCESSIBLE PROBLEMS AGAIN ENHANCES AND EXTENDS THE COVERAGE THE CURRENT BOOK PROVIDES THE SOLUTIONS TO THOSE PROBLEMS THE GOAL OF THESE THREE TEXTS IS TO PROVIDE STUDENTS AND TEACHERS ALIKE WITH A GOOD UNDERSTANDABLE INTRODUCTION TO THE FUNDAMENTALS OF CLASSICAL AND QUANTUM PHYSICS

INTRODUCTION TO QUANTUM MECHANICS: SOLUTIONS TO PROBLEMS

2021-08-05

THIS TEXTBOOK AIMS TO PROVIDE A CLEAR AND CONCISE SET OF LECTURES THAT TAKE ONE FROM THE INTRODUCTION AND APPLICATION OF NEWTON'S LAWS UP TO HAMILTON'S PRINCIPLE OF STATIONARY ACTION AND THE LAGRANGIAN MECHANICS OF CONTINUOUS SYSTEMS AN EXTENSIVE SET OF ACCESSIBLE PROBLEMS ENHANCES AND EXTENDS THE COVERAGE IT SERVES AS A PREQUEL TO THE AUTHOR'S RECENTLY PUBLISHED BOOK ENTITLED INTRODUCTION TO ELECTRICITY AND MAGNETISM BASED ON AN INTRODUCTORY COURSE TAUGHT SOMETIME AGO AT STANFORD WITH OVER 400 STUDENTS ENROLLED BOTH LECTURES ASSUME A GOOD CONCURRENT COURSE IN CALCULUS AND FAMILIARITY WITH BASIC CONCEPTS IN PHYSICS THE DEVELOPMENT IS OTHERWISE SELF-CONTAINED A GOOD INTRODUCTION TO THE SUBJECT ALLOWS ONE TO APPROACH THE MANY MORE INTERMEDIATE AND ADVANCED TEXTS WITH BETTER UNDERSTANDING AND A DEEPER SENSE OF APPRECIATION THAT BOTH STUDENTS AND TEACHERS ALIKE CAN SHARE

INTRODUCTION TO CLASSICAL MECHANICS

2020-02-26

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NUCLEAR SCIENCE ABSTRACTS

1969

A CONCISE HANDBOOK OF MATHEMATICS, PHYSICS AND ENGINEERING SCIENCES TAKES A PRACTICAL APPROACH TO THE BASIC NOTIONS, FORMULAS, EQUATIONS, PROBLEMS, THEOREMS, METHODS AND LAWS THAT MOST FREQUENTLY OCCUR IN SCIENTIFIC AND ENGINEERING APPLICATIONS AND UNIVERSITY EDUCATION. THE AUTHORS PAY SPECIAL ATTENTION TO ISSUES THAT MANY ENGINEERS AND STUDENTS

A CONCISE HANDBOOK OF MATHEMATICS, PHYSICS, AND ENGINEERING SCIENCES

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