

Understanding Mechanics2 Ed

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this 2nd edition takes into account recent changes to a level syllabuses including the need for modelling it has been reset to match the larger format of its companion understanding pure mathematics

engineering electromagnetics explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering we start with basic principles of electromagnetism including coulomb s law gauss s law and maxwell s equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility emc key features clear and concise explanations of fundamental electromagnetics concepts numerous examples and illustrations to aid understanding practical applications and real world examples demonstrating electromagnetics relevance in engineering comprehensive coverage of topics including transmission lines waveguides antennas and emc end of chapter problems and exercises to reinforce learning this textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines it serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work

a unified account of the principles of theoretical physics a unified grand tour of theoretical physics second edition stresses the inter relationships between areas that are usually treated as independent the profound unifying influence of geometrical ideas the powerful formal similarities between statistical mechanics and quantum field theory

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a comprehensive revision guide for students taking introductory physics courses be they physics majors or maths or engineering students informal style a student to student approach readers are assumed to have a basic understanding of the subject notes are used to highlight the major equations show where they come from and how they can be used and applied the aim is to consolidate understanding not teach the basics from scratch

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laser physics fundamental principles explores the fascinating world of laser physics unveiling the secrets behind how a

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