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an accessible introduction to nuclear and particle physics with equal coverage of
both topics this text covers all the standard topics in particle and nuclear physics
thoroughly and provides a few extras including chapters on experimental
methods applications of nuclear physics including fission fusion and biomedical
applications and unsolved problems for the future it includes basic concepts and
theory combined with current and future applications an excellent resource for
physics and astronomy undergraduates in higher level courses this text also
serves well as a general reference for graduate studies

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a laser is a device that emits light through a process of optical amplification based on the stimulated emission of electromagnetic radiation the term laser originated as an acronym for light amplification by stimulated emission of radiation laser applications provides a firm grounding in the fundamental concepts governing the field on optics this reference book is useful for the students of b e b tech and m tech courses the present book is an attempt to treat the subject of laser as an introductory course with recent major breakthroughs in ultrafast laser technology and femtosecond nonlinear spectroscopic techniques femtosecond laser spectroscopy is currently a burgeoning field in many branches of science including physics chemistry biology and materials science attempts have also been made to cover the frontline areas in the subject the development of laser and its various applications in communications radiation medicine holography etc has been given due importance

this book elucidates the important role of conduction convection and radiation heat transfer mass transport in solids and fluids and internal and external fluid flow in the behavior of materials processes these phenomena are critical in materials engineering because of the connection of transport to the evolution and distribution of microstructural properties during processing from making choices in the derivation of fundamental conservation equations to using scaling order of magnitude analysis showing relationships among different phenomena to giving examples of how to represent real systems by simple models the book takes the reader through the fundamentals of transport phenomena applied to materials processing fully updated this third edition of a classic textbook offers a significant shift from the previous editions in the approach to this subject representing an evolution incorporating the original ideas and extending them to a more comprehensive approach to the topic features introduces order of magnitude scaling analysis and uses it to quickly obtain approximate solutions for complicated problems throughout the book focuses on building models to solve practical problems adds new sections on non newtonian flows turbulence and measurement of heat transfer coefficients offers expanded sections on thermal resistance networks transient heat transfer two phase diffusion mass transfer and flow in porous media features more homework problems mostly on the analysis of practical problems and new examples from a much broader range of materials classes and processes including metals ceramics polymers and electronic materials includes homework problems for the review of the mathematics required for a course based on this book and connects the theory represented by mathematics with real world problems this book is aimed at

advanced engineering undergraduates and students early in their graduate studies as well as practicing engineers interested in understanding the behavior of heat and mass transfer and fluid flow during materials processing while it is designed primarily for materials engineering education it is a good reference for practicing materials engineers looking for insight into phenomena controlling their processes a solutions manual lecture slides and figure slides are available for qualifying adopting professors companion website transportphenomena.org

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