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university physics with masteringphysics r thirteenth edition continues to set the benchmark for clarity and rigor combined with effective teaching and research based innovation university physics is known for its uniquely broad deep and thoughtful set of worked examples key tools for developing both physical understanding and problem solving skills the thirteenth edition revises all the examples and problem solving strategies to be more concise and direct while maintaining the twelfth edition s consistent structured approach and strong focus on modeling as well as math to help students tackle challenging as well as routine problems the thirteenth edition adds bridging problems to each chapter which pose a difficult multiconcept problem and provide a skeleton solution guide in the form of questions and hints the text s rich problem sets

developed and refined over six decades are upgraded to include larger numbers of problems that are biomedically oriented or require calculus the problem set revision is driven by detailed student performance data gathered nationally through masteringphysics making it possible to fine tune the reliability effectiveness and difficulty of individual problems complementing the clear and accessible text the figures use a simple graphic style that focuses on the physics they also incorporate explanatory annotations a technique demonstrated to enhance learning this text is available with masteringphysics the most widely used educationally proven and technically advanced tutorial and homework system in the world this package contains university physics thirteenth edition masteringphysics with pearson etext student access code card

to move from empirical based physics to the theoretical abstractness required for advanced physics requires a paradigmatic shift in logic that can challenge even the brightest mind grasping the play of phenomena as they are described in introductory compendiums does not necessarily create a foundation that allows for the building of a bridge to the higher levels of theoretical physics in the first edition of advanced university physics respected physicists stuart palmer and mircea rogalski built that bridge and then guided readers across it serving as a supplement to the standard advanced physics syllabus their work provided a succinct review of course material while encouraging the development of a more cohesive understanding of theoretical physics now after incorporating suggestions from many readers and colleagues the two authors have revised and updated their original work to produce a second even more poignant edition succinct cohesive and comprehensive advanced university physics second edition brings individuals schooled in the rudiments of physics to theoretical fluency in a progression of concise chapters the text clarifies concepts from newtonian laws to nuclear dynamics while introducing and building upon the theoretical logic required to operate in the world of contemporary physics some chapters have been combined to improve relational clarity and new material has been added to cover the evolving concepts that have emerged over the last decade in this highly fluid field the authors have also added a substantial amount of relevant problems and at least one pertinent example for every chapter those already steeped in physics will continue to find this work to be a useful reference as the book s 47 chapters provide the opportunity to become refreshed and updated on a great number of easily identified topics

richard wolfson s text focuses on the fundamentals of physics teaches sound problem solving skills emphasises conceptual understanding and makes connections with the real world tips offer explanatory or cautionary notes for typical misconceptions and identify the connections between new and old topics

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