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Heat And Thermodynamics By Zemansky

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This respected text deals with large-scale, easily known thermal phenomena and then proceeds to small-scale, less accessible phenomena. The wide range of mathematics used in Dittman and Zemansky's text simultaneously challenges students who have completed a course in impartial differential calculus without alienating those students who have only taken a calculus-based general physics course. Examples of calculations are presented shortly after important formulas are derived. Students see the solutions of problems related to the formulas. Actual thermodynamic experiments are explained in detail. The student sees the applicability of abstract thermodynamic concepts and formulas to real situations.

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Heat and Thermodynamics is meant for an introductory course on Heat and Thermodynamics. Emphasis has been given to the fundamentals of thermodynamics. The book uses variety of diagrams, charts and learning aids to enable easy understanding of the s

The ninth edition of Thermodynamics and Heat Power contains a revised sequence of thermodynamics concepts including physical properties, processes, and energy systems, to enable the attainment of learning outcomes by Engineering and Engineering Technology students taking an introductory course in thermodynamics. Built around an easily understandable approach, this updated text focuses on thermodynamics fundamentals, and explores renewable energy generation, IC engines, power plants, HVAC, and applied heat transfer. Energy, heat, and work are examined in relation to thermodynamics cycles, and the effects of fluid properties on system performance are explained. Numerous step-by-step examples and problems make this text ideal for undergraduate students. This new edition: Introduces physics-based mathematical formulations and examples in a way that enables problem-solving. Contains extensive learning features within each chapter, and basic computational exercises for in-class and laboratory activities. Includes a straightforward review of applicable calculus concepts. Uses everyday examples to foster a better understanding of thermal science and

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engineering concepts. This book is suitable for undergraduate students in engineering and engineering technology.

The concise study of temperature and its extremes is designed to provide physics students, laymen and the general reader a greater understanding into the total meaning of "temperature" as a concept.

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