



## The Dynamics of Heat: A Unified Approach to Thermodynamics and Heat Transfer (Paperback)

By Hans U. Fuchs

Springer-Verlag New York Inc., United States, 2010. Paperback. Condition: New. 2nd ed. 2010. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Based on courses for students of science, engineering, and systems science at the Zurich University of Applied Sciences at Winterthur, this text approaches the fundamentals of thermodynamics from the point of view of continuum physics. By describing physical processes in terms of the flow and balance of physical quantities, the author achieves a unified approach to hydraulics, electricity, mechanics and thermodynamics. In this way, it becomes clear that entropy is the fundamental property that is transported in thermal processes (i.e., heat), and that temperature is the corresponding potential. The resulting theory of the creation, flow, and balance of entropy provides the foundation of a dynamical theory of heat. This extensively revised and updated second edition includes new material on dynamical chemical processes, thermoelectricity, and explicit dynamical modeling of thermal and chemical processes. To make the book more useful for courses on thermodynamics and physical chemistry at different levels, coverage of topics is divided into introductory and more advanced and formal treatments. Previous knowledge of thermodynamics is not required, but the reader should be familiar with basic electricity,...



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