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Frederick Reif, emeritus
professor in Physics and

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Psychology at Carnegie Mellon University, died on August 11th, 2019.

He was 92. A member of the Carnegie Mellon faculty for eleven years, he taught previously at UC Berkeley for twenty-nine years and the University of Chicago for eight years.

Remembering Frederick
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presentation emphasizes the essential unity of the subject matter and develops physical insight by stressing the microscopic content of the theory.

All macroscopic systems consist ultimately of atoms obeying the laws of quantum mechanics.

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That premise forms the basis for this comprehensive text, intended for a first upper-level course in statistical and thermal physics. Reif emphasizes that the combination of microscopic concepts with some statistical postulates leads readily to conclusions on a purely macroscopic level. The authors

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writing style and
penchant for description
energize interest in
condensed matter
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provide a conceptual
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physics. Statistical ideas are then applied to systems of particles in equilibrium to enhance an understanding of the basic notions of statistical mechanics, from which derive the purely macroscopic general statements of thermodynamics. Next, he turns to the more complicated equilibrium situations, such as phase

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there is a short sidenote that reminds you where it was first introduced and often recites the main points. In addition, there are summaries at the beginning of each chapter that make sure you won ' t get lost.

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stages and shows that its further formalization leads to equilibrium principle and to the principle of virtual works, and so pointing the way ahead for future research and applications. The idea that something remains constant in a machine operation is very old and has been expressed by many

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Of mathematical and philosophers such as, for instance, Aristotle.

Thus, a concept of energy developed.

Another important idea in machine operation is

Archimedes' lever principle. In modern

times the concept of work is analyzed in the

context of applied mechanics mainly in

Lazare Carnot

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mechanics and the
mechanics of the new
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like Navier, Coriolis and
Poncelet. In this context
the word "work" is
finally adopted. These
engineers are also
responsible for the
incorporation of the
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to combine the study of
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