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Statistical mechanics - Wikipedia

a series of graduate level subjects on the Mechanics of Solids and Structures that included: 2.071: Mechanics of Solid Materials, 2.072: Mechanics of Continuous Media, ... J.L. Ericksen, Introduction to the Thermodynamics of Solids, Chapman and Hall, 1991. M.E. Gurtin, An Introduction to Continuum Mechanics, Academic Press, 1981.

Continuum Mechanics - MIT

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Mechanics and Thermodynamics | Wolfgang Demtröder | Springer

People that have an interest in Science/ Energy can also immensely benefit from this course. The course will cover the fundamental behaviour of heat and also the mechanics of static and dynamic fluids. The course has been divided into two sections. The first section will deal with Thermodynamics while the second section will cover Fluid Mechanics.

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Beginner's guide to Thermodynamics and Fluid Mechanics | Udemy

Continuum Mechanics and Thermodynamics is an interdisciplinary journal exploring new ideas in continuum and quasi-continuum modeling of systems with a large number of degrees of freedom and sufficient complexity to require thermodynamic closure. Major emphasis is placed on papers seeking to bridge the gap between discrete and continuum approaches as well as micro and macro scales, by means of homogenization, statistical averaging, and other mathematical tools aimed at the judicial ...

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Statistical thermodynamics, or statistical mechanics, concerns itself with statistical predictions of the collective motion of particles from their microscopic behavior. In 1909, Constantin Carathéodory presented a purely mathematical approach in an

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axiomatic formulation, a description often referred to as geometrical thermodynamics.

Thermodynamics - Wikipedia

The structure of phenomenological thermodynamics is justified by a systematic derivation from the Liouville equation, through the BBGKY-hierarchy-derived Boltzmann equation, to an extended thermodynamics. In order to simplify the reading, an extensive introduction to classical continuum mechanics and thermostatics is included.

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