



History of Entropy

By Frederic P. Miller

Alphascript Publishing Nov 2009, 2009. Taschenbuch. Condition: Neu. Neuware - The concept of entropy developed in response to the observation that a certain amount of functional energy released from combustion reactions is always lost to dissipation or friction and is thus not transformed into useful work . Early heat-powered engines such as Thomas Savery's (1698), the Newcomen engine (1712) and the Cugnot steam tricycle (1769) were inefficient, converting less than two percent of the input energy into useful work output; a great deal of useful energy was dissipated or lost into what seemed like a state of immeasurable randomness. Over the next two centuries, physicists investigated this puzzle of lost energy; the result was the concept of entropy. In the early 1850s Rudolf Clausius set forth the concept of the thermodynamic system and posited the argument that in any irreversible process a small amount of heat energy Q is incrementally dissipated across the system boundary. Clausius continued to develop his ideas of lost energy, and coined the term 'entropy'. Over the next half century further development took place, and more recently the concept of entropy has found application in the analogous field of data loss in information transmission systems. 96...



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