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The Exergy Method of Thermal Plant Analysis T. J. Kotas (Auth.) Mounting concern about the depletion of natural energy resources and the greenhouse effect has led to increased interest in exergy analysis. Also known as second law analysis, this technique is used in thermal and chemical plant analysis, design, and optimization.

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The Exergy Method of thermodynamic analysis The Exergy Method is an alternative, relatively new technique based on the concept of exergy, loosely defined as a universal measure of the work potential or quality of different forms of energy in relation to a given environment.

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The Exergy Method, also known as "availability analysis," is a technique of thermodynamic analysis which uses the Second Law of Thermodynamics as its basis of assessment. Recent developments in the technique, combined with the increasing need to conserve fuel, has attracted much attention.

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The maximum available work defined by Equation (4) is the stream availability, more commonly termed exergy.This is the amount of work or energy that can be obtained from a reversible steady-state flow process. With real irreversible processes, driving forces (such as temperature differences between cooling and warming streams) result in a net increase in total entropy.

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