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Description. The Exergy Method of Thermal Plant Analysis aims to discuss the history, related concepts, applications, and development of the Exergy Method - analysis technique that uses the Second Law of Thermodynamics as the basis of evaluation of thermodynamic loss. The book, after an introduction to thermodynamics and its related concepts, covers concepts related to exergy, such as physical and chemical exergy, exergy concepts for a control method and a closed-system analysis, the exergy ...

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The subject of this book, The Exergy Method also known as the Availability Analysis, is a method of thermodynamic analysis in which the basis of evaluation of thermodynamic losses follows from both the First and the Second Law of Thermodynamics rather than just the First Law.

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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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