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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 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 thermal plant analysis Tadeusz Jozef Kotas Snippet view - The conclusion, based on these kotws novel concepts, consists of the theorem of necessity and sufficiency of stable equilibrium for equality of generalized potentials within a composite constituted by a system and a reservoir.

KOTAS THE EXERGY METHOD OF THERMAL PLANT ANALYSIS PDF

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The exergy method makes it possible to detect and quantify the possibilities of improving thermal and chemical processes and systems. The introduction of the concept thermo-ecological cost (cumulative consumption of non-renewable natural exergy resources) generated large application possibilities of exergy in ecology.

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The Exergy Method Of Thermal Plant Analysis by T.J. Kotas

The exergy method makes it possible to detect and quantify the possibilities of improving thermal and chemical processes and systems. The introduction of the concept thermo-ecological cost (cumulative consumption of non-renewable natural exergy resources) generated large application possibilities of exergy in ecology.

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Solutions manual to accompany the exergy method of thermal plant analysis by T. J. Kotas, 1995, Krieger edition, in English

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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. This book is particularly intended for engineers and students specializing in thermal and chemical plant design or operation as well as applied scientists concerned with various aspects of conservation of energy.

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Synopsis 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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Exergy analysis plays a key role in providing an understanding of how to minimize overall energy consumption [Kotas (1985), Sussmann (1980)]. Exergy analysis, as typically applied to a large-scale process plant, involves evaluation of lost work for each part of the process and examination of where the largest losses lie.

EXERGY - Thermopedia

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