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The shortcomings of the traditional methods of thermodynamic analysis are pointed out. A brief outline of an alternative, new method of thermodynamic analysis known as the Exergy Method is presented. Recommendations are put forward for integrating the material of the Exergy Method into a three year course of Engineering Thermodynamics.

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exergy can be defined as the minimum theoretical work required to form a quantity of matter from substances

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Exergy and Thermodynamic Analysis

CHAPTER 3: EXERGY ANALYSIS Exergy is the tool, which indicates how far the system departs from equilibrium state. The concept of exergy was put forward by Gibbs in 1878.

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The Exergy Method of Thermal Plant Analysis. T. J. KOTAS. Krieger, Florida, 1996, 328 Seiten, zahlr. Abb. u. Tab., brosch., £ 35,-, ISBN 0-89464-946-9.

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Exergy Analysis of a Solar Assisted Ground-Source

exergy is not conserved in a process or a system, but destroyed due to irreversibilities (Kotas, 1985). bmc's are designed and used for chilling the milk in standard duration of three hours as

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Exergy Balance and Exergetic Efficiency

The exergy efficiency is defined as the ratio between the useful exergy of a process and the total exergy used to accomplish that process [Szargut et al., 1988]. The highest exergy efficiency was 45% for methanol-chloroform method, 37% for In Situ-Hexane and 13% for ethanol-hexane method.

Exergy - an overview | ScienceDirect Topics

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On the Exergy Determination for Petroleum Fractions and

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.

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