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Entropy Generation Minimization The Method

A. Bejsn: Entropy generation minimization: the method and its applications i i i i (9, 10), which is characterized by a certain distribution of $Q(T)$, will generate more entropy and will require more power in order to maintain the cold end of the support at TL. Quantitative and older examples are

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given in Bejan (1982, 1996a, 1997).

ENTROPY GENERATION MINIMIZATION: THE METHOD AND ITS ...

This methodology is known as thermodynamic optimization, or entropy generation minimization (EGM) and was first recognized in a 1982 book [1]. The most recent review [2] shows that the use of this method is expanding at an accelerated pace, and that it has recently acquired alternate names such as finite time or endoreversible thermodynamics.

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This book presents the diverse and rapidly expanding field of Entropy Generation Minimization (EGM), the method of thermodynamic optimization of real devices. The underlying principles of the EGM method - also referred to as "thermodynamic optimization," "thermodynamic design," and "finite time thermodynamics" - are thoroughly discussed, and the method's applications to real devices are ...

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Entropy Generation Minimization combines the fundamental principles of thermodynamics, heat transfer, and fluid mechanics. EGM applies these principles to the modeling and optimization of real systems and processes that are characterized by finite size and finite time constraints, and are limited by heat and mass transfer and fluid flow ...

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"Entropy Generation Minimization" provides a straightforward presentation of the principles of the EGM method, and features examples that elucidate concepts and identify recent EGM advances in engineering and physics. Modern advances include the optimization of storage by melting and solidification; heat exchanger design; power from hot-dry-rock ...

Entropy generation minimization : the method of ...

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Entropy generation minimization: The new thermodynamics of ...

This chapter outlines the method of entropy generation minimization or thermodynamic optimization. It determines the thermodynamically optimal size or operating regime of an engineering system, where by optimal means the condition in which the system destroys the least energy while still performing its fundamental engineering function.

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Entropy generation minimization (finite time thermodynamics, or thermodynamic optimization) is the method that combines into simple models the most basic concepts of heat transfer, fluid mechanics, and thermodynamics. These simple models are used in the optimization of real (irreversible) devices and processes, subject to finite-size and finite-time constraints.

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Such theorem is the foundation for the entropy generation minimization method proposed by Bejan to optimize finite size thermodynamic systems. A thorough literature survey has revealed that the second law analysis of the oscillating flow around wells turbine has not been conducted before. However, this section briefly reviews the most relevant ...

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(SS), sodium, and lead-bismuth eutectic (LBE) is thus performed for fully turbulent flow in a circular tube under circumferentially uniform heat flux by considering a heat rate, inlet and outlet temperatures and heat flux densities typical of a ...

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