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Entropy Generation Minimization combines the fundamental principles of thermodynamics, heat transfer, and fluid mechanics. EGM applies these

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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 irreversibilities.

~~Entropy Generation Minimization: The Method of ...~~

The method of thermodynamic optimization or entropy generation minimization (EGM) established itself as a distinct field of activity at the interface between heat transfer, engineering thermodynamics, and fluid mechanics. The position of the field is illustrated in Fig. I, which is

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This methodology is known as thermodynamic optimization, or entropy generation minimization (EGM) and was first recognized in a 1982 book. The most recent review 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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Bejan [15, 16] introduced the entropy generation minimization method and developed its applications in engineering sciences. Since then several researchers have been studying the entropy generation...

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~~Entropy Generation Minimization: The Method of ...~~

"Entropy Generation Minimization (EGM) is the method of thermodynamic optimization of real systems that owe their thermodynamic imperfection to heat transfer, fluid flow irreversibilities" [1,...

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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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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—Advanced Engineering ...~~

Special emphasis is given to chronology and to the relationship between the more recent work and the pioneering work that outlined the method and the field. "Entropy Generation Minimization" combines the fundamental principles of thermodynamics, heat transfer, and fluid mechanics.

~~Entropy generation minimization : the method of ...~~

Entropy generation minimization ~EGM! is the method of modeling and optimization of real devices that owe their thermodynamic imperfection to heat transfer, mass transfer, and fluid flow irreversibilities. It is also known as "thermo-dynamic optimization" in engineering, where it was first de-

~~Entropy generation minimization: The new thermodynamics of ...~~

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~~Entropy Generation Minimization The Method Of ...~~

Flow field analysis demonstrates that the entropy generation minimization causes a reduction in flow disorders within the optimal PATs. As a result, inlet shock, flow deviation at the blade outlet, flow separation at the blade passage, backflow and swirling flow at the draft tube are dramatically reduced or completely eliminated.

~~Entropy generation minimization of a pump running in ...~~

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 me

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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 (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.

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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.

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