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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

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finite time constraints, and are limited by heat and mass transfer and fluid flow irreversibilities.

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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

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The 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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## The Method Of

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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

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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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Optimal means the condition in which the system destroys the least energy while still performing its fundamental engineering function.

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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,

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and fluid mechanics.

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~EGM! is the method of modeling  
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imperfect 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:

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flow separation at the blade passage, backflow and swirling flow at the draft tube are dramatically reduced or completely eliminated.

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design," and "finite time thermodynamics" - are thoroughly discussed, and the method's applications to real devices are ...

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Entropy generation minimization

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(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.

Entropy generation minimization:

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~~The new thermodynamics of ...~~  
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the entropy generation  
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Bejan to optimize finite size  
thermodynamic systems. A  
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The Method of the oscillating flow  
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