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the Universe:

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Principle in
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generation**

*Balancing a SAM:
the cross-
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Maximization*

Mod-01 Lec-03

Workable system

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7.12 \u0026 7.13

// *Engineering Thermodynamics-67*

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Generation

Minimization

combines the

fundamental

principles of

thermodynamics,

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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

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are limited by
heat and mass
transfer and
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Optimization Of
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Finite Size
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Minimization:
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generation

minimization

(EGM)

established

itself as a

distinct field

of activity at

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between heat

transfer,

engineering

thermodynamics,

and fluid

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mechanics. The position of the field is illustrated in

Fig. I, which is

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This methodology is known as thermodynamic

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optimization, or
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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

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it has recently acquired alternate names such as finite time or endoreversible thermodynamics.

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generation

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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

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thermodynamics.

These simple models are used in the

optimization of

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devices and

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This chapter

outlines the

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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

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fundamental
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function.

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Special emphasis
is given to

chronology and

to the

relationship

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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

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optimization of
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It is also known
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Flow field
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Minimization

(EGM), the
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optimization of
real devices.

The underlying
principles of
the EGM method -
also referred to
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"finite time thermodynamics"

are thoroughly discussed, and

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applications to

real devices are

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the method that

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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

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revealed that the second law analysis of the oscillating flow around wells turbine has not been conducted before.

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