

EGM

Entropy Generation Minimization

EGM is a design concept based upon minimization of irreversible processes. It is a new philosophy: **reversible processes are good, irreversible wrong**.

As a measure of irreversibility the rate of entropy generation in a system is considered. Entropy increase is caused by heat transfer from high to low temperatures (this is always irreversible process) and also by hydrodynamics, by frictional losses (conversion of mechanical energy to heat by friction is also irreversible). These two causes can be summarized for the case of continuous fluid flow (general temperature and flow velocity distribution in space) as

$$\dot{S}_{gen} = \lambda \left(\frac{\nabla T}{T} \right)^2 + \frac{\vec{\tau} : \nabla \vec{u}}{T}$$

Rate of entropy
increase in unit
volume $\frac{W}{m^3 K}$

Irreversibility due to heat
conduction. λ is thermal
conductivity. See also
previous expression

$$ds = dq \frac{T_1 - T_2}{T_1 T_2}$$

Scalar product of viscous
stress tensor τ and
gradient of velocity u is
power dissipated to heat
in unit volume

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ML Morrison



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