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Theory of Rankine Cycle. The Rankine cycle was named after him and describes the performance of steam turbine systems, though the theoretical principle also applies to reciprocating engines such as steam locomotives. In general, the Rankine cycle is an idealized thermodynamic cycle of a constant pressure heat engine that converts part of heat into mechanical work.

#### **Theory of Rankine Cycle - Equations and Calculation**

Decreasing the turbine exhaust pressure increases the net work per cycle but also decreases the vapor quality of outlet steam. The case of the decrease in the average temperature at which energy is rejected, requires a decrease in the pressure inside condenser (i.e. the decrease in the saturation temperature). The lowest feasible condenser pressure is the saturation pressure corresponding to the ...

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### **Boiler and Condenser Pressures - Rankine Cycle**

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Contributor: DeVoe Publisher: Howard  
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is designed primarily as a textbook for a  
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1) To derive the Carnot efficiency, which  
is  $1 - T_C / T_H$  (a number less than  
one), Kelvin had to evaluate the ratio of  
the work output to the heat absorbed  
during the isothermal expansion with the  
help of the Carnot-Clapeyron equation,  
which contained an unknown function  
called the Carnot function. The  
possibility that the Carnot function could  
be the temperature as measured from a

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### **Engineering | CAE**

The thermodynamic free energy is a concept useful in the thermodynamics of chemical or thermal processes in engineering and science. The change in the free energy is the maximum amount of work that a thermodynamic system can perform in a process at constant temperature, and its sign indicates whether a process is thermodynamically favorable or forbidden.

### **Thermodynamic free energy -**

#### **Wikipedia**

Robert T. Balmer, in *Modern Engineering Thermodynamics*, 2011. 5.6 Ideal Gases. Ideal gas equations are usually quite familiar to engineering students. You see them in chemistry courses, fluid mechanics courses, and of course thermodynamics courses. They are perhaps the most used equations of state ever devised.

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