

JIS

JAPANESE INDUSTRIAL STANDARD

**General rules for
energy evaluation method
by available energy**

JIS Z 9204—1991

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General rules for energy evaluation
method by available energy

Z 9204-1991

1. Scope

This Japanese Industrial Standard specifies the principal rules in the case where the evaluation of available energy is conducted for industrial facilities relating to energy.

Remarks: The applicable standard to this standard is shown as follows.

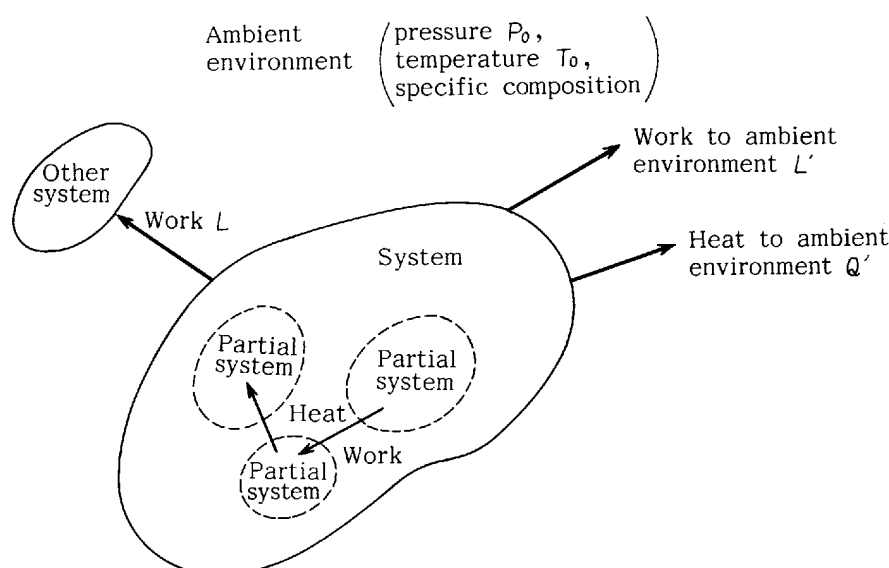
JIS Z 9202 General Rules for Heat Balance

2. Definitions

For the purpose of this standard, the following definitions apply.

- (1) state The state defined by thermomechanical factors such as pressure, temperature, density, composition, etc.
- (2) system Object or aggregate of objects which gives to other system only work L (does not exchange heat) and gives to ambient environment work L' and heat Q' according to change of its state (Fig. 1).

Fig. 1. System



- Remarks 1. A concrete example of system is shown in Fig. 2 (within range enclosed by boundary line I).
2. In general, one system may be divided into several partial systems (Fig. 1, Fig. 2). At this time, in the case where the division with heat exchange (heat transfer) is required, for that in which these partial systems have been collected in one partial system, the rules for ordinary system may apply.
3. The work L designates all dynamical work of mechanical work, electric power and others.

Fig. 2. Concrete example of system (within boundary line I) and partial systems (within boundary lines II to V)

