

### **Answer on Question #52088, Physics, Field Theory**

When the junctions of two dissimilar metals are maintained at different temperatures an electromotive force is set up in the circuit of which these junctions are part. A pair of junctions of this kind and the effect are known respectively as thermistor and Peltier effect  
resistance thermometer and Joule effect  
pyrometer and Joule effect  
thermocouple and Seebeck effect

**Answer:** thermocouple and Seebeck effect

19 Which of the following is not an equation of state of a thermodynamic system?

Charles law

Ideal gas law

Van der Waals equation

Kirchoff's junction rule

**Answer:** Kirchoff's junction rule

20 Units for thermal conductivity

J/kg.K

J/mol.K

J.ohm/sec.K<sup>2</sup>

W/m.K

**Answer:** W/m.K