Start-up and calibration of a 2277 ThermoMetric calorimeter

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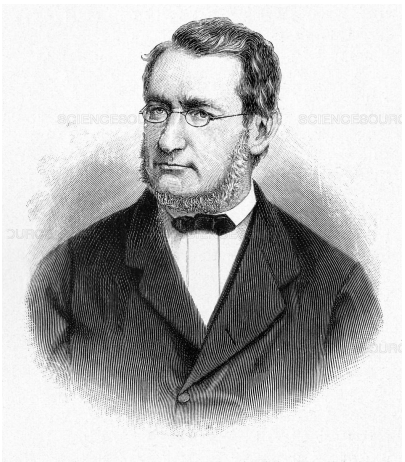
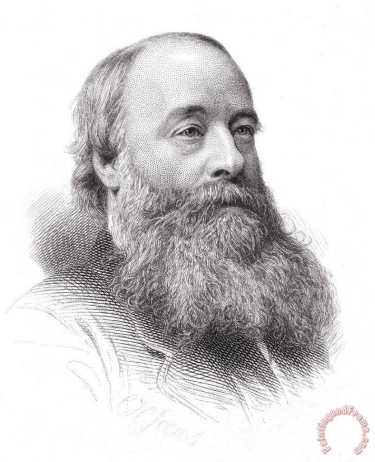
Introduction

Sadi Carnot



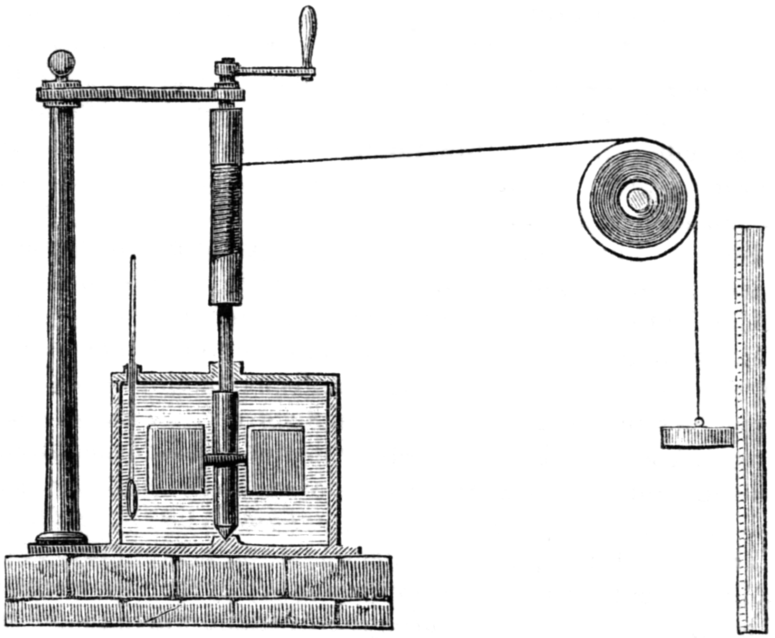
Julius von Mayer



James Joule

- Thermodynamics is the study of energy transformations
- It was once thought that heat was a fluid

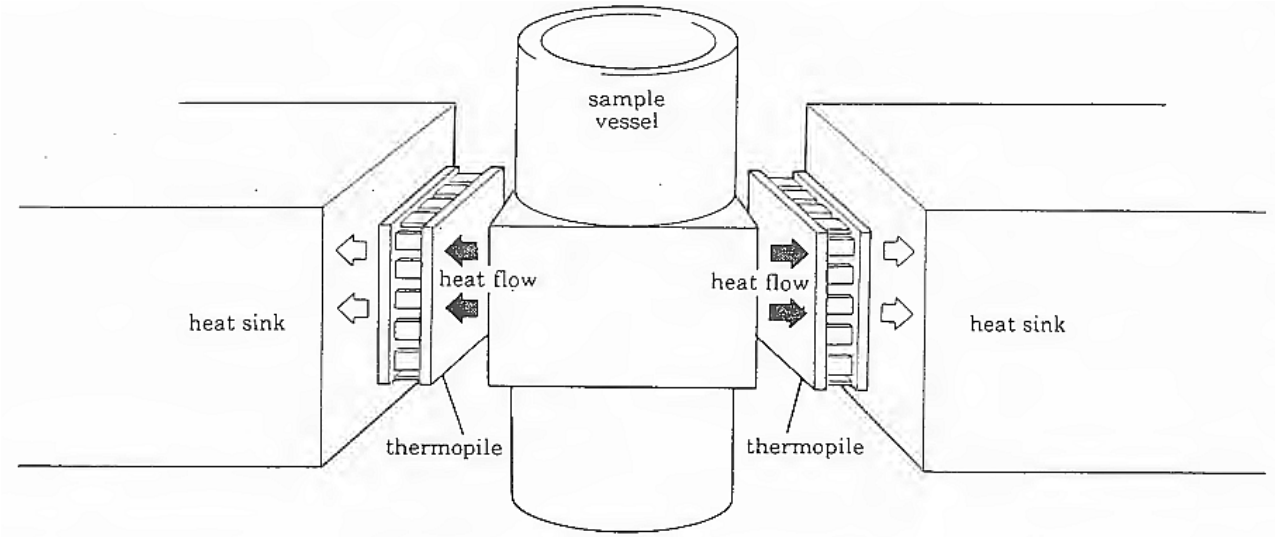
Introduction



- $V = mgh$
- $T(V) = \dfrac{V}{m_{H_2O}C}$

Introduction

- How is heat measured?
- A Peltier element uses the Seebeck-Peltier effect to measure heat, and to transport it.



$$V = -S\nabla T \propto Q \qquad (1)$$

$$Q = PIt \qquad (2)$$

Methodology

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Results

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Conclusions

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