



Fundamentals of Temperature Control

William K. Roots

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Fundamentals of Temperature Control focuses on theoretical foundations and principles involved in temperature control.

The book first offers information on thermal-process representation and response. Discussions focus on response to damped harmonic inputs, principle of superposition, bode diagrams, ramp, step, and impulse functions, harmonic response, electrical analogs, basic equations, and thermal conductivity. The text then examines common thermal elements and open-loop temperature control.

The publication ponders on closed-loop temperature control and the dynamics of discontinuous temperature control. Topics include dynamics in the phase plane and time domain, dynamic analysis, closed-loop control, secondary feedback, and cooling processes. The manuscript then examines quasi-continuous and continuous temperature control, as well as quasi-continuously controlled process behavior in the time domain and quasi-continuously controlled process behavior in the phase plane.

The text is a vital source of data for researchers interested in the fundamentals of temperature control.



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