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HEAT POWER ENGINEERING

For D.M.E. Second Year - IV-Semester



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M. Sreenivasulu
Senior Lecturer in
Mechanical Engg

Heat Power Engineering

William Nichols Barnard



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issues in a design of wide range of industrial processes and devices This book includes 17 advanced and revised contributions and it covers mainly 1 thermodynamic effects and thermal stress 2 heat pipe and exchanger 3 gas flow and oxidation and 4 heat analysis The first section introduces spontaneous heat flow thermodynamic effect of groundwater stress on vertical cylindrical vessel transient temperature fields principles of thermoelectric conversion and transformer performances The second section covers thermosyphon heat pipe shell and tube heat exchangers heat transfer in bundles of transversely finned tubes fired heaters for petroleum refineries and heat exchangers of irreversible power cycles The third section includes gas flow over a cylinder gas solid flow applications oxidation exposure effects of buoyancy and application of energy and thermal performance index on energy efficiency The fourth section presents integral transform and Green function methods micro capillary pumped loop influence of polyisobutylene additions synthesis of novel materials and materials for electromagnetic launchers The advanced ideas and information described here will be fruitful for the readers to find a sustainable solution in an industrialized society

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Elements of Heat-power Engineering: Auxiliary equipment, plant ensemble, air conditioning, and refrigeration Clarence Floyd Hirshfeld, William Nichols Barnard, Frank Oakes Ellenwood, 1933

Problems of Heat Transfer and Hydraulics of Two Phase Media Samson Semenovitch Kutateladze, 1964 The collection consists of articles expounding the results of a significant number of investigations in the region of heat exchange during boiling and condensation and on the hydraulics of liquid-gas mixtures

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