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It shown the standard PCM module, which size is 155 mm \* 60 mm \* 27 mm, and the thermal conductive silicone (Thermal conductivity:  $> 4.15$  W/m\*K and thermal resistance:  $< 0.004$  °C-in<sup>2</sup> /W) with a thickness of 1 mm was painted on both sides of PCMs, and it acted as the binder to assemble battery modules.

This highly informative and carefully presented book offers a comprehensive overview of the fundamentals of thermal engineering. The book focuses both on the fundamentals and more complex topics such as the basics of thermodynamics, Zeroth Law of thermodynamics, first law of thermodynamics, application of first law of thermodynamics, second law of thermodynamics, entropy, availability and irreversibility, properties of pure substance, vapor power cycles, introduction to working of IC engines, air-standard cycles, gas turbines and jet propulsion, thermodynamic property relations and combustion. The author has included end-of-chapter problems and worked examples to augment learning and self-testing. This book is a useful reference to undergraduate students in the area of mechanical engineering.

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?ABOUT THE BOOK: Authors of Thermal Engineering are happy to present a long standing requirement of a book which will be useful to the students from first year to final year mechanical engineering course from various universities. This book covers quite wide spectrum of topics like fundamental concepts, first & second law of thermodynamics, IC engines, Systems of IC engines, Compressors & Gas turbines, Jet propulsion system, Boilers, properties of steam, Steam nozzles and Turbines, Condensers, Refrigeration and air-conditioning, Heat transfer, Fuels and combustion. New topics of today's interest like pollution and pollution control have been covered. Topics like metal cutting / joining process, machine devices & elements, introduction of mechatronics have also been included. This would give preliminary exposure to the students going to non-mechanical course to acquire some basic ideas about the manufacturing industry. These topics are intended to be studied by all students in the first year level in most of the universities. ?OUTSTANDING FEATURES: - All topics included in the chapters have been thoroughly described. - Every topic has been written in most logical sequence maintaining the natural flow to keep the students interested. - The chapters are arranged such that the beginners will understand the fundamentals of 'THERMODYNAMICS' and gradually the topics of applications of thermodynamics have been developed in sequence. The students would be able to get the

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fundamental concept about all topics included in thermal engineering up to the final year in mechanical engineering, - A large number of solved problems on different topics are included. Numerical problems with answers, as well as theoretical questions have been included for the students to practice. - An alphabetical index is given at the end of the book to facilitate easy search of any topic as required. - The coverage of topics in the book is based on syllabi of universities in Andhra Pradesh, Karnataka, Kerala, Tamilnadu, Maharashtra, Punjab and West Bengal & other major universities. - Clear & simple figures have been included in each chapter for better understanding & also to enable students to draw / reproduce these in the examination easily. - In the entire book SI system of units is used. ?RECOMMENDATIONS: A text for BE (Mech.), B.Tech (Mech.), UPSC (Engineering Services), AMIE, M.Tech. etc. ?ABOUT THE AUTHOR: Prof. D.K. Chavan Mechanical Engineering Department, Marathwada Mitra Mandal's College of Engineering (M.M.C.O.E.) Pune-52 Ex. Assistant Professor Mechanical Engineering Department, M.I.T., Pune-38 Prof. G.K. Pathak Sr. Faculty Member Mechanical Engineering Department, Maharashtra Institute of Technology M.I.T., Pune-38 ?BOOK DETAILS: ISBN : 978-81-89401-20-7 Pages: 1521 + 32 Edition: 2nd, Year- 2013 Size: L-24.2 B-18.4 H-5.4 ?PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road

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These are the proceedings of the 2012 International Conference on Chemical Engineering and Advanced Materials (CEAM 2012). The conference provided a forum for the discussion of new developments, recent progress and innovations in chemical engineering and advanced materials, and addressed all aspects of these fields. Emphasis was placed on current and future challenges in research and development for both academia and industry; especially long-term fundamental research aimed at discovering novel phenomena, processes and tools.

Thermal Engineering covers in a comprehensive and coherent manner fundamentals of thermodynamics and their engineering applications. Beginning with elementary ideas of pressure, temperature and heat, it develops the laws of thermodynamics from experimental and engineering backgrounds. Steam turbine is covered in simple and easy methods of

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drawing velocity triangles. As thermal science is related to heat transfer, a general overview is presented along with a discussion on various power cycles for improving efficiency.

Thermodynamics And Thermal Engineering, A Core Text In SI Units, Meets The Complete Requirements Of The Students Of Mechanical Engineering In All Universities. Ultimately, It Aims At Aiding The Students Genuinely Understand The Basic Principles Of Thermodynamics And Apply Those Concepts To Practical Problems Confidently. It Provides A Clear And Detailed Exposition Of Basic Principles Of Thermodynamics. Concepts Like Enthalpy, Entropy, Reversibility, Availability Are Presented In Depth And In A Simple Manner. Important Applications Of Thermodynamics Like Various Engineering Cycles And Processes Are Explained In Detail. Introduction To Latest Topics Are Enclosed At The End. Each Topic Is Further Supplemented With Solved Problems Including Problems From Gate, IES Exams, Objective Questions Along With Answers, Review Questions And Exercise Problems Alongwith Answers For An Indepth Understanding Of The Subject.

Two new chapters on general Thermodynamic Relations and Variable Specific Heat have been Added. The mistake which had crept in have been eliminated. We wish to express our sincere thanks to numerous

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professors and students, both at home and abroad, for sending their valuable suggestions and also for recommending the book to their students and friends.

This book introduces readers to the "Jaya" algorithm, an advanced optimization technique that can be applied to many physical and engineering systems. It describes the algorithm, discusses its differences with other advanced optimization techniques, and examines the applications of versions of the algorithm in mechanical, thermal, manufacturing, electrical, computer, civil and structural engineering. In real complex optimization problems, the number of parameters to be optimized can be very large and their influence on the goal function can be very complicated and nonlinear in character. Such problems cannot be solved using classical methods and advanced optimization methods need to be applied. The Jaya algorithm is an algorithm-specific parameter-less algorithm that builds on other advanced optimization techniques. The application of Jaya in several engineering disciplines is critically assessed and its success compared with other complex optimization techniques such as Genetic Algorithms (GA), Particle Swarm Optimization (PSO), Differential Evolution (DE), Artificial Bee Colony (ABC), and other recently developed algorithms.

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The CRC Handbook of Thermal Engineering, Second Edition, is a fully updated version of this respected reference work, with chapters written by leading experts. Its first part covers basic concepts, equations and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering, energy-efficient building systems, traditional and renewable energy sources, food processing, and aerospace heat transfer topics. The latest numerical and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also presented. Designed for easy reference, this new edition is a must-have volume for engineers and researchers around the globe.

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