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A PRACTICAL TREATISE DEALING WITH FUEL OIL, FOR THE CENTRAL STATION MAN, THE POWER PLANT OPERATOR, THE MECHANICAL ENGINEER AND THE STUDENT

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INDUSTRIAL ENGINEERING AND THE ENGINEERING DIGEST

ELEMENTS OF FUEL OIL AND STEAM ENGINEERING

A PRACTICAL TREATISE DEALING WITH FUEL OIL, FOR THE CENTRAL STATION MAN, THE POWER PLANT OPERATOR, THE MECHANICAL ENGINEER AND THE STUDENT (CLASSIC REPRINT)

Forgotten Books Excerpt from Elements of Fuel Oil and Steam Engineering: A Practical Treatise Dealing With Fuel Oil, for the Central Station Man, the Power Plant Operator, the Mechanical Engineer and the Student The many illustrative problems that have been worked out in the chapters on steam engineering and boiler economy are based upon the data obtained from the latest edition of Marks Davis' Tables and Diagrams of the Thermal Properties of Saturated and Superheated Steam, published by Longmans, Green Company, Which may be purchased through any reputable book dealer for the sum of one dollar. For a careful study of these illustrative examples the reader should provide himself With a copy of these steam tables, although this is not necessary for most of the discussions on fuel oil and furnace design as treated in the text. The six beautiful views of the ec'onomy measuring apparatus installed at the Long Beach Plant of the Southern California Edison Company, featured in this book, are extended through the courtesy of R. J C. Wood, superintendent of generation for the Southern Division of that company. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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Academic Press Designed for use in a standard two-semester engineering thermodynamics course sequence. The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors. The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs. The text has numerous features that are unique among engineering textbooks, including historical vignettes, critical thinking boxes, and case studies. All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical. Over 200 worked examples and more than 1,300 end of chapter problems provide the use opportunities to practice solving problems related to concepts in the text. Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics. Helps students develop engineering problem solving skills through the use of structured problem-solving techniques. Introduces the Second Law of Thermodynamics through a basic entropy concept, providing students a more intuitive understanding of this key course topic. Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them. Over 200 worked examples and more than 1,300 end of chapter problems offer students extensive opportunity to practice solving problems. Historical Vignettes, Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications. For greater instructor flexibility at exam time, thermodynamic tables are provided in a separate accompanying booklet.

ELECTRICAL ENGINEERING

THE A-B-C OF AVIATION

THE A-B-C OF AVIATION

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THE ECONOMICS OF MANUAL TRAINING

ELECTRICITY SIMPLIFIED

A TREATISE COVERING THE PRACTICE AND THEORY OF ELECTRICITY

HOUGHTON'S CONCRETE WORKER'S REFERENCE BOOKS

TELEPHONE CONSTRUCTION, INSTALLATION, WIRING, OPERATION AND MAINTENANCE

STEAM POWER PLANT ENGINEERING

Theclassics.Us This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1910 edition. Excerpt: ...Hc absorbed by the air in passing through the cooling device, B.T.U. per hour, is $Ht = Hc + Ht$. (102) Neglecting radiation and other minor losses, the heat H, absorbed by the air must be equal to the heat given up by the circulating water, or $H, = H$. (103) Example: Determine the quantity of air passing through the cooling tower per hour and the circulating water lost by evaporation in a power plant operating under the following conditions: Engines indicate 500 H.P. and consume 20 lbs. steam per I.H.P. hour; temperature of the injection water, discharge water and outside air, 90,122 and 72 F., respectively; barometer 29.5; relative humidity of air entering and leaving tower 70 and 90 per cent respectively; vacuum at condenser 25 inches. Determine also the weight of water evaporated in per cent of that circulated and of the condensed steam. In the problem, These values are obtained from Steam Tables and from Air Tables (Table 58). Substitute these values in equations (96) to (103) thus: (96), $p, = 29.5-0.79 \times 0.7 = 28.95$. (96a), $p, = 29.5-2.74 \times 0.9 = 27.03$. (97), $w = H \times 0.0747$ $V0. = 0.0722$ y0. (97a), $w = 0.001224 \times 0.7$ $V0 = 0.000857$ V0. By assumption, t2 being 10 to 20 degrees lower than (in average practice when the range le--is greater than 30 degrees. t Marks and Davis: the values in Table 58 are Regnault's. Og V.28.95 460 + 112 Vl 27.03 460 + 72 0 = 1.152; that is, each cu. ft. of dry air entering the cooling-tower is increased in volume to 1.152 cu. ft. as it leaves. (98a), $w2 = 0.003978 \times 0.9 \times 1.152$ $Vt = 0.004125$ V0. (98b), $w3 = 0.004125$ V0-0.000857 V0 = 0.003268 V0. The total heat to be abstracted from the steam (see equation (84), page 347) is $H-500 \times 20$ $(1120.1-122 + 32) = 10,300,000$ B.T.U. per hour. (99), But W (122-90)...

CONCRETE FROM SAND MOLDS

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A COMPLETE TREATISE FOR TRAIN RULE INSTRUCTORS, SUPERINTENDENTS, TRAINMASTERS, CONDUCTORS, ENGINEMEN, BRAKEMEN, SWITCHMEN, TRAIN DISPATCHERS, OPERATORS AND OTHERS

STORAGE BATTERIES SIMPLIFIED, OPERATING PRINCIPLES--CARE AND INDUSTRIAL APPLICATIONS

A COMPLETE, NON-TECHNICAL BUT AUTHORITATIVE TREATISE DISCUSSING THE DEVELOPMENT OF THE MODERN STORAGE BATTERY, OUTLINING THE BASIC OPERATION OF THE LEADING TYPES

AUTOMOBILE STARTING, LIGHTING AND IGNITION

ELEMENTARY PRINCIPLES, PRACTICAL APPLICATION, WIRING DIAGRAMS AND REPAIR HINTS; A COMPLETE EXPOSITION EXPLAINING ALL FORMS OF ELECTRICAL IGNITION SYSTEMS USED WITH INTERNAL COMBUSTION ENGINES OF ALL TYPES, ALSO INCLUDES A COMPREHENSIVE SERIES OF INSTRUCTIONS PERTAINING TO STARTING AND LIGHTING SYSTEMS OF AUTOMOBILES; DESCRIBES STORAGE BATTERY CONSTRUCTION AND MAINTENANCE, MAGNETO TIMING, CARE OF MOTORS AND GENERATORS AND SYSTEMATIC LOCATION OF ALL ELECTRICAL FAULTS; INVALUABLE TO MOTORISTS, STUDENTS, MECHANICS AND REPAIR MEN, EVERY PHASE OF THE SUBJECT IS TREATED IN AN EASILY UNDERSTOOD, NON-TECHNICAL MANNER