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This up-to-date reference covers the thermal design, operation and maintenance of the three major components in industrial heating and air conditioning systems including fossil fuel-fired boilers, waste heat boilers and air conditioning evaporators. Among the distinguishing features covered are: the numerous types of components in use and the features and relative merits of each, overviews of the major technical sections of the book, with suggested approaches to design based on industrial experience, case studies and examples of actual engineering problems, design methods and procedures based on current industrial practice in the United States, Russia, China and Europe with data charts, tables and thermal-hydraulic correlations for design included, and various approaches to design based on experience in the art of industrial process

equipment design. Excerpt from Heat Transmission in Boilers, Condensers, and Evaporators It would hardly be necessary to enlarge upon the expensive nature Of boiler experiments. With regard to the measurement of gas temperatures, it might be said that, even in the case Of large boilers, it is the common practice to measure the ue gas temperature by a single thermometer, having the bulb well inserted into the current of gas. Except when the boiler works lightly, such a position is probably sufficient to get an average temperature reading, seeing that the ow of gases is usually more or less turbulent. Quite apart from thermometer errors, however, there is one source of error which is nearly always neglected, and that is, the in uence of radiation from or to the thermometer bulb or cover. Usually the thermometer, whatever its type, is placed where it is more or less subject to the radiations from the comparatively cold boiler tubes or drums, which causes it to read below the true temperature of the gas. Some examples of this are given on p. 18 of Heat Transmission by Radiation, Conduction, and Convection. 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." New design requirements for porous plug-type vaporizers used with Kaufman thrusters and thruster arrays are discussed. The results of testing samples of porous tungsten for mercury flow rate, liquid intrusion pressure level, and mechanical strength are presented. Nitrogen gas was used instead of mercury vapor for approximate calibration. Liquid intrusion pressure levels will require that flight thruster systems with long feedlines have restrictions in the dynamic line during launch. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was

reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This up-to-date reference covers the thermal design, operation and maintenance of the three major components in industrial heating and air conditioning systems including fossil fuel-fired boilers, waste heat boilers and air conditioning evaporators. Among the distinguishing features covered are: the numerous types of components in use and the features and relative merits of each, overviews of the major technical sections of the book, with suggested approaches to design based on industrial experience, case studies and examples of actual engineering problems, design methods and procedures based on current industrial practice in the United States, Russia, China and Europe with data charts, tables and thermal-hydraulic correlations for design included, and various approaches to design based on experience in the art of industrial process equipment design. Table of contents: Section I: Theoretical considerations. Section II: Information on the operation of evaporators. Section III. Applications to various industries. Section IV: Types of evaporators. This excellent volume combines a great deal of data only previously available from many different sources into a single, informative volume. It presents evaporation technology as it exists today. Although evaporation is one of the oldest unit operations, it is also an area with dramatic changes in the last quarter century. Although other

methods of separation are available, evaporation remains the best process for many applications. All factors must be evaluated in order to select the best evaporator type. This book will be extremely useful in evaluating and deciding which evaporation technology will meet a particular set of requirements. Nonlinearities exist in all process control systems. The use of linear control techniques is valid only in a narrow region of operation. Nonlinear control is central to future industrial development. In this book, multivariable nonlinear control techniques based on differential geometry are considered in a pragmatic manner. The book provides a simplified and systematic approach to geometric nonlinear control theory. A case study of an industrial evaporator is used as an example throughout the entire book. Various other examples are also used throughout the text to illustrate the theory. The book successfully demonstrates the superiority and simplicity of the class of controllers studied through simulations and actual plant implementations. The simulations were done using the symbolic computation package MAPLE. Discussions are given on the application of symbolic computation in process engineering. This book is aimed at industrial practitioners and postgraduates in engineering, and will be particularly valuable to practicing engineers who find the theory books on control somewhat heavy going. The insights provided in the book will encourage more industrial implementations of nonlinear controllers, and thereby help to bridge the widening gap between control theory and industrial practice. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or

blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Different flow patterns are encountered in the calandria of a climbing film evaporator when the feed is introduced cold. The lower part where the feed is brought to boiling temperature is filled with liquid. The remainder of the tube where evaporation occurs contains liquid and vapor phases. The local heat transfer coefficient and temperature profile were investigated separately for the liquid zone present in the lower part and for the boiling zone present in the upper part of a single tube glass evaporator. A study of the heat transfer in the liquid zone, where the process liquid is brought to its boiling temperature, showed that the presence of dissolved gases affects appreciably the efficiency when the operation is carried out under vacuum as compared to an operation at atmospheric pressure. In the boiling zone where two phase-flow is present (liquid and vapor phases), a heat transfer study permits the correlation of the pressure in the tube with the evaporating rate and the position along the evaporator tube. A model to determine the position where boiling begins, the temperature at any position in the tube, the vapor rate and the void fraction at the exit of the evaporator tube given the initial conditions (feed rate, feed temperature, vacuum in the system and thermal properties of the feed) was set up. Its validity was demonstrated by the results obtained with sugar solutions and tomato juice. The model was also successfully applied to an industrial scale example. Two standard solutions containing constituents of different heat sensitivities and four samples of water taken from different sources were analyzed for total solids in duplicate and simultaneously by the standard or direct-heat evaporation method and by the vacuum rotary evaporation method. There was good agreement between the methods in the analysis of total solids of the heat-stable standard mixture, but not in the case of the heat-labile standard urea solution where the recovery error was 12.3 percent for the standard method vs. 0.5 percent for the new procedure. The four

samples tested were tap water, Miami River water, water reclaimed from urine via thermoelectric distillation, charcoal-treated and filtered, and chamber atmospheric condensate collected during a 4-man, 14-day chamber test. Generally, in all four water samples, the amount of total solids analyzed by vacuum rotary evaporation was greater than by the standard procedure, especially where volatile organic material definitely was indicated. The accuracy of the analysis by the vacuum rotary evaporation method is due to the immobilization under reduced pressure and temperature of constituents that normally volatilize, decompose, or oxidize with heat. The vacuum rotary evaporation method also has a considerable advantage in speed over conventional procedures. (Author). Explore the cutting-edge technology and innovative thinking that shaped the wood pulp industry with this insightful volume on S. Morris Lillie's multiple effect evaporators. With detailed descriptions and stunning illustrations, this book is an essential resource for anyone interested in the history of industrial engineering and design. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

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