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This book originates from 35 years of teaching Steam Generators to graduate students at the Politecnico of Milan, and from 45 years of professional activity in this area. This book has been written for practicing designers, users, and engineers of steam generators in order to guide them through practical problems and help avoiding technical mistakes. Technical studies and solutions for various applications are presented, and the author presents some of his original studies.

This book guides the reader through general and fundamental problems of pressure vessel design. The basic approach is rigorously scientific with a complete theoretical development of the topics treated. The concrete and precise calculation criteria provided can be immediately applied to actual designs. The book also comprises unique contributions on important topics like Deformed Cylinders, Flat Heads, or Flanges.

The motion of fluids is never in parallel- or counter-flow in heat exchangers and tube banks, leading to complexities in the equations for calculating their transferred heat and temperatures. This review of the topic includes 70 design and verification tables.

This book is a generalist textbook; it is designed for anybody interested in heat transmission, including scholars, designers and students. Two criteria constitute the foundation of Annaratone's books, including the present one. The first one consists of indispensable scientific rigor without theoretical exasperation. The inclusion in the book of some theoretical studies, even if admirable for their scientific rigor, would have strengthened the scientific foundation of this publication, yet without providing the reader with further applicable know-how. The second criterion is to deliver practical solution to operational problems. This criterion is fulfilled through equations based on scientific rigor, as well as a series of approximated equations, leading to convenient and practically acceptable solutions, and through diagrams and tables. When a practical case is close to a well defined theoretical solution, corrective factors are shown to offer simple and correct solutions to the problem.

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The rise and fall of the man who cracked Prohibition to become one of the world's richest criminal masterminds—and helped inspire The Great Gatsby. Love, murder, political intrigue, mountains of cash, and rivers of bourbon...The tale of George Remus is a grand spectacle and a lens into the dark heart of Prohibition. Yes, Congress gave teeth to Prohibition in October, 1919, but the law didn't stop George Remus from amassing a fortune that would be worth billions of dollars today. As one Jazz Age journalist put it, "Remus was to bootlegging what Rockefeller was to oil." Author Bob Batchelor breathes life into the largest bootlegging operation in America—greater than that of Al Capone—and a man considered the best criminal defense lawyer of his era. Remus bought an empire of distilleries on Kentucky's "Bourbon Trail" and used his other profession, as a pharmacist, to profit off legal loopholes. He spent millions bribing officials in the Harding Administration, and he created a roaring lifestyle that epitomized the Jazz Age over which he ruled. That is, before he came crashing down in one of the most sensational murder cases in American history: a cheating wife, the G-man who seduced her and put Remus in jail, and the plunder of a Bourbon Empire. Remus murdered his wife in cold-blood and then shocked a nation winning his freedom based on a condition he invented—temporary maniacal insanity. "The fantastic story of George Remus makes the rest of the "Roaring Twenties" look like the "Boring Twenties" in comparison." —David Pietrusza, author of 1920: The Year of the Six Presidents

The present Volume 5 of the successful book package "Multiphase Flow Dynamics" is devoted to nuclear thermal hydraulics which is a substantial part of nuclear reactor safety. It provides knowledge and mathematical tools for adequate description of the process of transferring the fission heat released in materials due to nuclear reactions into its environment. It step by step introduces into the heat release inside the fuel, temperature fields in the fuels, the "simple" boiling flow in a pipe described using ideas of different complexity like equilibrium, non equilibrium, homogeneity, non homogeneity. Then the "simple" three-fluid boiling flow in a pipe is described by gradually involving the mechanisms like entrainment and deposition, dynamic fragmentation, collisions, coalescence, turbulence. All heat transfer mechanisms are introduced gradually discussing their uncertainty. Different techniques are introduced like boundary layer treatments or integral methods. Comparisons with experimental data at each step demonstrate the success of the different ideas and models. After an introduction of the design of the reactor pressure vessels for pressurized and boiling water reactors the accuracy of the modern methods is demonstrated using large number of experimental data sets for steady and transient flows in heated bundles. Starting with single pipe boiling going through boiling in the rod bundles the analysis of complete vessel including the reactor is finally demonstrated. Then a powerful method for nonlinear stability analysis of flow boiling and condensation is introduced. Models are presented and their accuracies are investigated for describing critical multiphase flow at different level of complexity. Basics of designing of steam generators, moisture separators and emergency condensers are presented. Methods for analyzing a complex pipe network flows with components like pumps, valves etc. are also presented. Methods for analysis of important aspects of the severe accidents like melt-water interactions, external cooling and cooling of layers of molten nuclear reactor material are presented. Valuable sets of thermo-physical and transport properties for severe accident analysis are presented for the following materials: uranium dioxide, zirconium dioxide, stainless steel, zirconium, aluminum, aluminum oxide, silicon dioxide, iron oxide, molybdenum, boron oxide, reactor corium, sodium, lead, bismuth, and lead-bismuth eutectic alloy. The emphasis is on the complete and consistent thermo dynamical sets of analytical approximations appropriate for computational analysis. Therefore the book presents a complete coverage of the modern Nuclear Thermal Hydrodynamics. This present second edition includes various updates, extensions, improvements and corrections. This present second edition includes various updates, extensions, improvements and corrections.

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