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Titolo	Heat transfer applications for the practicing engineer // Louis Theodore
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (664 p.)
Collana	Essential engineering calculations series ; ; 4
Classificazione	TEC009010 UG 2500
Disciplina	621.402/2
Soggetti	Heat exchangers Heat - Transmission
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: Preface.Introductory Comments.Part One. Introduction.1. History of Heat Transfer.2. History of Chemical Engineering: Transport Phenomena vs Unit Operations.3. Process Variables.4. Conservation Laws.5. Gas Laws.6. Heat Exchanger Pipes and Tubes.Part Two. Principles.7. Steady-State Heat Conduction.8. Unsteady-State heat Conduction.9. Forced Convection.10. Free Convection.11. Radiation.12. Condensation and Boiling.13. Refrigeration and Cryogenics.Part Three. Heat Transfer Equipment Design Procedures and Applications.14. Introduction to Heat Exchangers.15. Double Pipe Heat Exchangers.16. Shell and Tube Heat Exchangers.17. Fins and Extended Surfaces.18. Other Heat Exchange Equipment.19. Insulation and Refractory.20. Operation, Maintenance,

and Inspection (OMI).21. Entropy Consideration and Analysis.22. Design Principles and Industrial Applications.Part Four. Special Topics. 23. Environmental Management.24. Accident and Emergency Management.25. Ethics.26. Numerical Methods.27. Economics and Finance.28. Open-Ended Problems.Appendix A.Appendix B.Appendix C.Appendix D.Index.

Sommario/riassunto

"This book serves as a training tool for individuals in industry and academia involved with heat transfer applications. Although the literature is inundated with texts emphasizing theory and theoretical derivations, the goal of this book is to present the subject of heat transfer from a strictly pragmatic point of view. The book is divided into four Parts: Introduction, Principles, Equipment Design Procedures and Applications, and ABET-related Topics. The first Part provides a series of chapters concerned with introductory topics that are required when solving most engineering problems, including those in heat transfer. The second Part of the book is concerned with heat transfer principles. Topics that receive treatment include Steady-state Heat Conduction, Unsteady-state Heat Conduction, Forced Convection, Free Convection, Radiation, Boiling and Condensation, and Cryogenics. Part three (considered the heart of the book) addresses heat transfer equipment design procedures and applications. In addition to providing a detailed treatment of the various types of heat exchangers, this part also examines the impact of entropy calculations on exchanger design, and operation, maintenance and inspection (OM&I), plus refractory and insulation effects. The concluding Part of the text examines ABET (Accreditation Board for Engineering and Technology) related topics of concern, including economics and finance, numerical methods, open-ended problems, ethics, environmental management, and safety and accident management"--

2. Record Nr.	UNIORUON00323144
Autore	Adorno, Theodor Wiesengrund
Titolo	7.: Ästhetische Theorie / Theodor W. Adorno
Pubbl/distr/stampa	Frankfurt am Main, : Suhrkamp, 1997
Descrizione fisica	577 p. ; 18 cm.
Disciplina	193
Soggetti	Estetica - Studi Filosofia - Studi
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