

1. Record Nr.	UNINA9910460710703321
Autore	Rathakrishnan Ethirajan
Titolo	Elements of Heat Transfer
Pubbl/distr/stampa	Boca Raton, : CRC Press, 2012
ISBN	0-429-08725-X 1-4665-5652-8
Descrizione fisica	1 online resource (544 p.)
Disciplina	536/.2
Soggetti	Heat - Transmission Electronic books.
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 at the end of each chapters.
Nota di contenuto	Front Cover; Dedication; Contents; Preface; The Author; Chapter 1: Basic Concepts and Definitions; Chapter 2: Conduction Heat Transfer; Chapter 3: One-Dimensional, Steady-State Conduction; Chapter 4: Unsteady Heat Conduction; Chapter 5: Convective Heat Transfer; Chapter 6: Radiation Heat Transfer; Chapter 7: Mass Transfer; Chapter 8: Boiling and Condensation; Chapter 9: Heat Exchangers; Appendix; Back Cover
Sommario/riassunto	1 Basic Concepts and Definitions1.1 Introduction1.1.1 Driving Potential1.2 Dimensions and Units1.2.1 Dimensional Homogeneity1.3 Closed and Open Systems1.3.1 Closed System (ControlMass)1.3.2 Isolated System1.3.3 Open System (ControlVolume)1.4 Forms of Energy1.4.1 Internal Energy1.5 Properties of a System1.5.1 Intensive and Extensive Properties1.6 State and Equilibrium1.7 Thermal and Calorical Properties1.7.1 Specific Heat of an Incompressible Substance1.7.2 Thermally Perfect Gas 1.8 The Perfect Gas1.9 Summary1.10 Exercise ProblemsConduction Heat Transfer2.1 Introduction2.2 Conduction Heat Trans.