1. Record Nr. UNISALENTO991001471599707536

Autore	Zadnikar, Marijan
Titolo	Hrastovlje / Marijan Zadnikar
Pubbl/distr/stampa	Ljubljana : [Druzina], 1961
Descrizione fisica	1 v. ; 16 cm
Disciplina	722.7
Soggetti	Architettura Romana
Lingua di pubblicazione	Sloveno
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910476819503321

Autore	DeGraw Sharon
Titolo	The subject of race in American science fiction / / Sharon DeGraw
Pubbl/distr/stampa	New York, NY : , : Routledge, Taylor & Francis Group, , [2007]
Descrizione fisica	1 online resource
Collana	Literary Criticism and Cultural Theory
Disciplina	813/.0876209355
Soggetti	Race in literature Science fiction, American - History and criticism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9910820990903321

Autore	Gaskell David R.
Titolo	An introduction to transport phenomena in materials engineering / / David R. Gaskell
Pubbl/distr/stampa	New Jersey : , : Momentum Press, LLC, , 2012
ISBN	1-283-89611-7 1-60650-357-X
Edizione	[Second edition.]
Descrizione fisica	1 online resource (686 p.)
Disciplina	660.28423
Soggetti	Mass transfer Materials - Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references (p. 642-643) and index.
Nota di contenuto	List of symbols -- 1. Engineering units and pressure in static fluids -- 1.1 Origins of engineering units -- 1.2 Concept of pressure -- 1.3 Measurement of pressure -- 1.4 Pressure in incompressible fluids -- 1.5 Buoyancy -- 1.6 Summary -- Problems -- 2. Momentum transport and laminar flow of Newtonian fluids -- 2.1 Introduction -- 2.2 Newton's lax of viscosity -- 2.3 Conservation of momentum in steady-state flow -- 2.4 Fluid flow between two flat parallel plates -- 2.5 Fluid flow down in inclined plane -- 2.6 Fluid flow in a vertical cylindrical tube -- 2.7 Capillary flowmeter -- 2.8 Fluid flow in an annulus -- 2.9 Mean residence time -- 2.10 Calculation of viscosity from the kinetic theory of gases -- 2.11 Viscosities of liquid metals -- 2.12 Summary -- Problems -- 3. Equations of continuity and conservation of momentum and fluid flow past submerged objects -- 3.1 Introduction -- 3.2 Equation of continuity -- 3.3 Conservation of momentum -- 3.4 Navier-Stokes equation for fluids of constant density and viscosity -- 3.5 Fluid flow over a horizontal flat plane -- 3.6 Approximate integral method in obtaining boundary layer thickness -- 3.7 Creeping flow past a sphere -- 3.8 Summary -- Problems -- 4. Turbulent flow -- 4.1 Introduction -- 4.2 Graphical representation of fluid flow -- 4.3 Friction factor and turbulent flow in cylindrical pipes

gas B -- 11.7 Sublimation of a sphere into a stationary gas -- 11.8 Film model -- 11.9 Catalytic surface reactions -- 11.10 Diffusion and chemical reaction in stagnant film -- 11.11 Mass transfer at large fluxes and large concentrations -- 11.12 Influence of mass transport on heat transfer in stagnant film -- 11.13 Diffusion into a falling film of liquid -- 11.14 Diffusion and the kinetic theory of gases -- 11.15 Mass transfer coefficient and concentration boundary layer on a flat plate -- 11.16 Approximate integral method -- 11.17 Mass transfer by free convection -- 11.18 Simultaneous heat and mass transfer: evaporate cooling -- 11.19 Chemical reaction and mass transfer: mixed control -- 11.20 Dissolution of pure metal A in liquid B: mixed control -- 11.21 Summary -- Problems --
12. Condensation and boiling -- 12.1 Introduction -- 12.2 Dimensionless parameters in boiling and condensation -- 12.3 Modes of boiling -- 12.4 Pool boiling correlations -- 12.5 Summary -- Problems --
Appendix A. Elementary and derived SI units and symbols -- Appendix B. Prefixes and symbols for multiples and submultiples of SI units -- Appendix C. Conversion from British and U.S. units to SI units -- Appendix D. Properties of solid metals -- Appendix E. Properties of nonmetallic solids -- Appendix F. Properties of gases at 1 Atm pressure -- Appendix G. Properties of saturated liquids -- Appendix H. Properties of liquid metals -- Recommended readings -- Answers to problems -- Index.

Sommario/riassunto

In their classic text, Transport Phenomena, Bird, Stewart. and Lightfoot state their opinion that the subject of transport phenomena should rank along with thermodynamics, mechanics, and electromagnetism as one of the "key engineering sciences." This thought was not shared by many traditional metallurgists, and diffusion in the solid state was the only aspect of transport phenomena included in many traditional university metallurgy curricula. However, as metallurgists transformed themselves into materials scientists and engineers, and the artificial barriers between the various engineering disciplines were lowered, the materials engineers began to see the truth in the opinion of Bird, Stewart, and Lightfoot. The major difference, however, between the first and this edition is that this edition contains an additional chapter, Chapter 12, titled "Boiling and Condensation." The material presented in this chapter is particularly important in view of the current interest in Renewal Energy Resources involving such devices as windmills and solar panels. Developments in this field require a thorough familiarity with the phenomena and mechanisms of boiling and condensation.