

1.	Record Nr.	UNICAMPANIAVAN00282320
	Autore	Chapman, Sandra
	Titolo	Core Electrodynamics / Sandra Chapman
	Pubbl/distr/stampa	Cham, : Springer, 2021
	Descrizione fisica	xii, 134 p. : ill. ; 24 cm
	Soggetti	00A79 (77-XX) - Physics [MSC 2020] 78-XX - Optics, electromagnetic theory [MSC 2020] 83-XX - Relativity and gravitational theory [MSC 2020]
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910659488403321
	Autore	Guerrieri Marco
	Titolo	Fundamentals of Railway Design // by Marco Guerrieri
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
	ISBN	9783031240300 9783031240294
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (270 pages)
	Collana	Springer Tracts in Civil Engineering, , 2366-2603
	Disciplina	625.1
	Soggetti	Transportation engineering Traffic engineering Railroad engineering Security systems Transportation Technology and Traffic Engineering Rail Vehicles Security Science and Technology
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Train resistance and braking distance -- The alignment design of ordinary and high-speed railways -- The railway track -- Wheel-rail interaction and derailment analysis -- Introduction to railway track design -- Railway track deterioration and monitoring -- Basics of switches and crossings -- Railway lines and stations -- The railway bridges -- Railway tunnels -- Traffic management systems and railway capacity -- High-speed railways, maglev and hyperloop systems -- Metro rail systems -- Tramway systems -- People movers, monorails and rack railways.

Sommario/riassunto

This textbook examines key railway engineering topics useful for railway design and control. Conventional railways are considered together with high-speed railways, tramways, metros, maglev and hyperloop systems, people movers, monorails and rack railways. Every system of transport is described in its basic technical characteristics, especially in terms of transportation system capacity, alignment design criteria and construction costs. It is an introductory book to specific topics of the railway engineering field, and thus, the mathematical treatment is purposely brief and simplified. The book is an ideal learning resource for students of civil engineering, as well as a valuable reference for practicing engineers involved with railway designs.