1. | | |
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| Record Nr. | UNINA9910702783603321 |
| Autore | Pennline James A. |
| Titolo | Evaluating daily load stimulus formulas in relating bone response to exercise / / James A. Pennline, Lealem Mulugeta |
| Pubbl/distr/stampa | Cleveland, Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , June 2014 |
| Descrizione fisica | 1 online resource (16 pages) : illustrations |
| Collana | NASA/TM ; ; 2014-218306 |
| Soggetti | Physical exercise
Cyclic loads
Physiological responses
Musculoskeletal system
Loads (forces) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Title from title screen (viewed on March 24, 2015).
"June 2014." |
| Nota di bibliografia | Includes bibliographical references (pages 14-16). |

2.	Record Nr.	UNINA9910253974203321
	Autore	Wang Yihui
	Titolo	Optimal Trajectory Planning and Train Scheduling for Urban Rail Transit Systems / / by Yihui Wang, Bin Ning, Ton van den Boom, Bart De Schutter
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-30889-0
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (198 p.)
	Collana	Advances in Industrial Control, , 1430-9491
	Disciplina	711.75
	Soggetti	Automatic control
		Transportation engineering
		Traffic engineering
		Regional planning
		City planning
		Transportation
		Control and Systems Theory
		Transportation Technology and Traffic Engineering
		Landscape/Regional and Urban Planning
	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 and index.
	Nota di contenuto	Introduction -- Background: Train Operation and Scheduling -- Optimal Trajectory Planning for a Single Train -- Optimal Trajectory Planning for Multiple Trains -- OD-Independent Train Scheduling for an Urban Rail Transit Line -- OD-Dependent Train Scheduling for an Urban Rail Transit Line -- OD-Dependent Train Scheduling for an Urban Rail Transit Network -- Overview and Future Directions -- Appendix: A General Formulation of the Pseudospectral Method.
	Sommario/riassunto	This book contributes to making urban rail transport fast, punctual and energy-efficient –significant factors in the importance of public transportation systems to economic, environmental and social requirements at both municipal and national levels. It proposes new methods for shortening passenger travel times and for reducing energy

consumption, addressing two major topics: (1) train trajectory planning: the authors derive a nonlinear model for the operation of trains and present several approaches for calculating optimal and energy-efficient trajectories within a given schedule; and (2) train scheduling: the authors develop a train scheduling model for urban rail systems and optimization approaches with which to balance total passenger travel time with energy efficiency and other costs to the operator. Mixed-integer linear programming and pseudospectral methods are among the new methods proposed for single- and multi-train systems for the solution of the nonlinear trajectory planning problem which involves constraints such as varying speed restrictions and maximum traction/braking force. Signaling systems and their effects are also accounted for in the trajectory planning model. Origin–destination passenger demand is included in the model formulation for train scheduling. Iterative convex programming and efficient bi-level approaches are utilized in the solution of the train-scheduling problem. In addition, the splitting rates and route choices of passengers are also optimized from the system point of view. The problems and solutions described in Optimal Trajectory Planning and Train Scheduling for Urban Rail Transit Systems will interest researchers studying public transport systems and logistics whether from an academic or practitioner background as well as providing a real application for anybody studying optimization theory and predictive control. Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.