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Autore	Panagiotou, TH.
Titolo	A numerical solution for the surface temperature rise history of a material including surface reradiation losses / by Th. Panagiotou and Michael A. Delichatsios
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Nota di contenuto	-- FOREWORD xi -- PREFACE xiii -- ACKNOWLEDGMENTS xv -- ABBREVIATIONS xvii -- 1 INTRODUCTION 1 -- 1.1 Automated Transportation / 2 -- 1.2 Automated Transit / 4 -- 1.3 Individual Modes of Automated Transit Family / 8 -- 1.3.1 Automated Guideway Transit / 8 -- 1.3.2 Automated Bus / 14 -- 1.3.3 Automated Personal Transit / 15 -- 2 HISTORICAL DEVELOPMENT 23 -- 2.1 Conceptual Initiations: 1960s and Prior / 23 -- 2.2 Pilot Demonstrations: 1970s-1980s / 27 -- 2.3 Applications in Confined Environments: 1990s-2000s / 32 -- 2.4 Multipolar Development: New Millennium and Beyond / 36 -- 2.4.1 Exponential Growth of Driverless Metros / 36 -- 2.4.2 Steady Expansion of APM Systems / 39 -- 2.4.3 Emergence of PRT Applications / 39 -- 3 TECHNOLOGY SPECIFICATIONS 47 -- 3.1 Vehicles / 48 -- 3.2 Guideway / 51 -- 3.3 Propulsion and System Power / 52 -- 3.4 Communications and Control / 53 -- 3.5 Stations and Platforms / 55 -- 3.6 Maintenance and Storage Facilities / 58 -- 4 APPLICATIONS 63 -- 4.1 Driverless Metro in Paris / 64 -- 4.1.1 Clean Slate of Automation: Line No. 14 / 64 -- 4.1.2 Conversion from Manual

Sommario/riassunto

A comprehensive discussion of automated transit This book analyzes the successful implementations of automated transit in various international locations, such as Paris, Toronto, London, and Kuala Lumpur, and investigates the apparent lack of automated transit applications in the urban environment in the United States. The book begins with a brief definition of automated transit and its historical development. After a thorough description of the technical specifications, the author highlights a few applications from each sub-group of the automated transit spectrum. International case studies display various technologies and their applications, and identify vital factors that affect each system and performance evaluations of existing applications. The book then discusses the planning and operation of automated transit applications at both macro and micro levels. Finally, the book covers a number of less successful concepts, as well as the lessons learned, allowing readers to gain a comprehensive understanding of the topic. Key features: . Provides a thorough examination of automated transit applications, their impact and implications for society. Written by the committee chair for the Automated Transit Systems Transportation, Research Board. Offers essential information on planning, costs, and applications of automated transit systems. Covers driverless metros, automated LRT, group and personal rapid transit, a review of worldwide applications. Includes capacity and safety guidelines, as well as vehicles, propulsion, and communication and control systems This book is essential reading for

engineers, researchers, scientists, college or graduate students who work in transportation planning, engineering, operation and management fields.