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Nota di bibliografia	Includes bibliographical references (p. [313]-329) and index.
Nota di contenuto	Introduction : from local impacts to global change -- The global demand for passenger travel -- Greenhouse gas emission implications of travel demand -- Road vehicle technology -- Aircraft technology -- Alternative transportation fuels -- Policy measures for greenhouse gas mitigation -- Future prospects and policy choices.
Sommario/riassunto	In the nineteenth century, horse transportation consumed vast amounts

of land for hay production, and the intense traffic and ankle-deep manure created miserable living conditions in urban centers. The introduction of the horseless carriage solved many of these problems but has created others. Today another revolution in transportation seems overdue. Transportation consumes two-thirds of the world's petroleum and has become the largest contributor to global environmental change. Most of this increase in scale can be attributed to the strong desire for personal mobility that comes with economic growth. In Transportation in a Climate-Constrained World, the authors present the first integrated assessment of the factors affecting greenhouse gas (GHG) emissions from passenger transportation. They examine such topics as past and future travel demand; the influence of personal and business choices on passenger travel's climate impact; technologies and alternative fuels that may become available to mitigate GHG emissions from passenger transport; and policies that would promote a more sustainable transportation system. And most important, taking into account all of these options are taken together, they consider how to achieve a sustainable transportation system in the next thirty to fifty years.