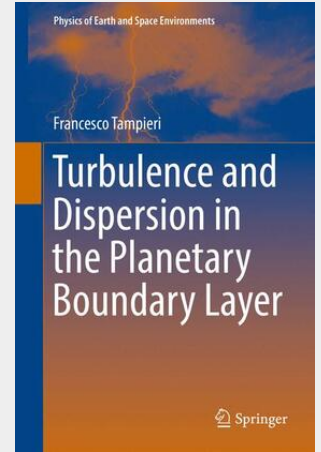


Tampieri

Turbulence and Dispersion in the Planetary Boundary Layer

This book offers a comprehensive review of our current understanding of the planetary boundary layer, particularly the turbulent exchanges of momentum, heat and passive scalars between the surface of the Earth and the atmosphere. It presents and discusses the observations and the theory of the turbulent boundary layer, both for homogeneous and more realistic heterogeneous surface conditions, as well as the dispersion of tracers. Lastly it addresses the main problems arising due to turbulence in weather, climate and atmospheric composition numerical models. Written for postgraduate and advanced undergraduate-level students and atmospheric researchers, it is also of interest to anyone wanting to understand the findings and obtain an update on problems that have yet to be solved.



128,39 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319436029

Medium: Buch

ISBN: 978-3-319-43602-9

Verlag: Springer International Publishing

Erscheinungstermin: 10.10.2016

Sprache(n): Englisch

Auflage: 1. Auflage 2017

Serie: Physics of Earth and Space Environments

Produktform: Gebunden

Gewicht: 5619 g

Seiten: 241

Format (B x H): 160 x 241 mm

