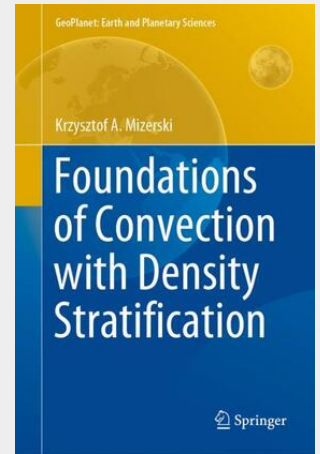


## Foundations of Convection with Density Stratification

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This book continues the process of systematization of knowledge about convection. It is important to put the current knowledge on weakly and strongly stratified convection in order, and provide a comprehensive description of the marginal, weakly nonlinear and fully developed stages of convective flow in both cases. The book provides a short compendium of knowledge on the linear and weakly nonlinear limits of the Boussinesq convection, and a review of the theory on fully developed Boussinesq convection. The third chapter is devoted to a detailed derivation and a study of the three aforementioned stages of stratified (anelastic) convection, with a full solution in the marginal stage provided for the first time. Detailed and systematic explanations are given. The book is intended mainly as a textbook for courses on hydrodynamics and convective flows, for the use of lecturers and students; however, it also serves for the entire scientific community as a practical reference.

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**90,94 €**

84,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

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**Artikelnummer:** 9783030630539

**Medium:** Buch

**ISBN:** 978-3-030-63053-9

**Verlag:** Springer International Publishing

**Erscheinungstermin:** 30.12.2020

**Sprache(n):** Englisch

**Auflage:** 1. Auflage 2021

**Serie:** GeoPlanet: Earth and Planetary Sciences

**Produktform:** Gebunden

**Gewicht:** 571 g

**Seiten:** 248

**Format (B x H):** 160 x 241 mm

