



# An Introduction to Atmospheric Thermodynamics

*Anastasios Tsonis*

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# An Introduction to Atmospheric Thermodynamics

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## **An Introduction to Atmospheric Thermodynamics** Anastasios Tsonis

This is a self-contained, concise, rigorous book introducing the reader to the basics of atmospheric thermodynamics. This new edition has been brought completely up to date and reorganized to improve the quality and flow of the material. The introductory chapters provide definitions and useful mathematical and physical notes to help readers understand the basics. The book then describes the topics relevant to atmospheric processes, including the properties of moist air and atmospheric stability. It concludes with a brief introduction to the problem of weather forecasting and the relevance of thermodynamics. Each chapter contains worked examples and student exercises, with solutions available to instructors on a password protected website at [www.cambridge.org/9780521796767](http://www.cambridge.org/9780521796767). The author has taught atmospheric thermodynamics for over 20 years and is a highly respected researcher. This book is an ideal text for short undergraduate courses taken as part of an atmospheric science, meteorology, physics or natural science program.

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