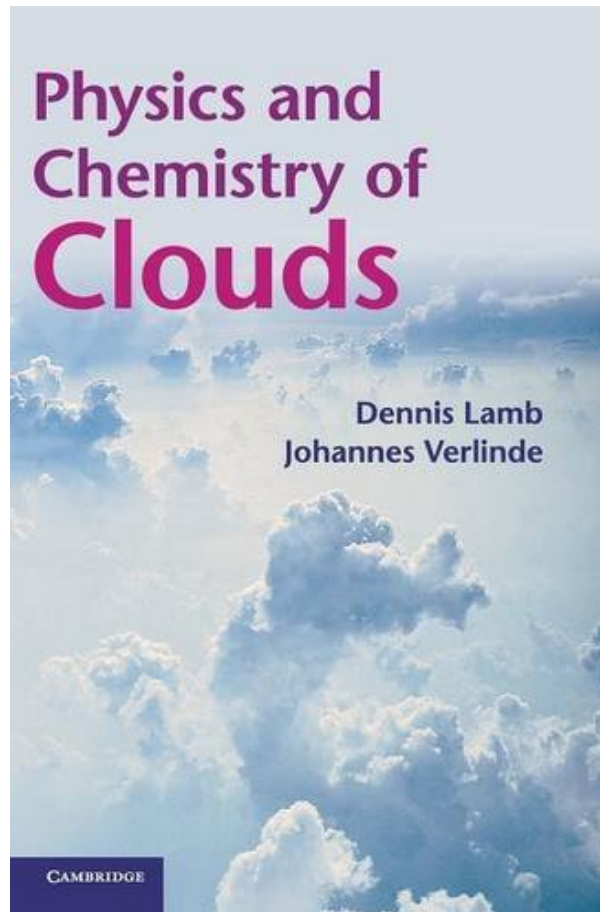
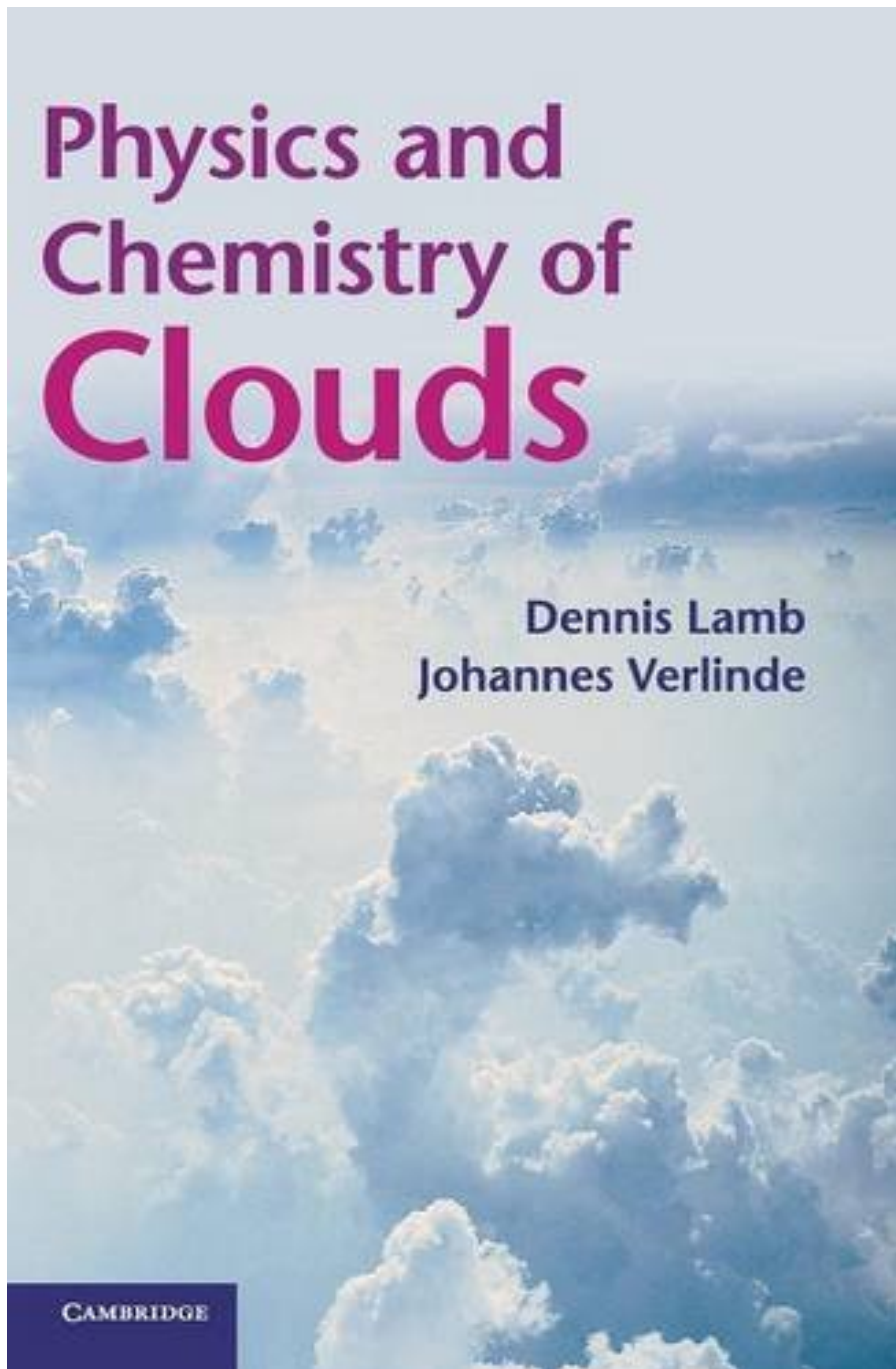


PHYSICS AND CHEMISTRY OF CLOUDS BY DENNIS LAMB, JOHANNES VERLINDE



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Review

"At long last an up-to-date textbook is now available on the physics and chemistry of clouds suitable for use by upper division undergraduate students and first-year graduate students. It has now been almost 20 years since the last book on cloud microphysics was published. But this book is so much more than a cloud microphysics book as it encompasses atmospheric chemistry and the basics for all of physical meteorology including atmospheric radiation. The book is truly designed as a textbook rather than a source book as it includes problem sets at the end of each chapter. I think that lecturers and students alike will appreciate this valuable new book." Dr. William R. Cotton, Professor of Atmospheric Science, Colorado State University, Fort Collins, CO

"This book fills a void that exists between elementary books and those designed as references for researchers. It is the first time that a text book is published which is designed for graduate level courses and for students that are seasoned or new to the field of cloud physics and chemistry. The book describes the microphysical and mesoscale processes in clouds and their interactions in a clear and comprehensive way. Since the book is designed as a text book, each chapter is concluded with a list of references for further reading and a set of problems.

The book is written in a pedagogical way in which the reader is led through the difficult topics of cloud development in a logical way which wets the appetite to investigate in more depth the outstanding issues of this fascinating field. I expect the book to be the main textbook for many years to come." Professor (Emeritus) Zev Levin, The Goldemberg Chair Professor in Atmospheric Physics, Department of Geophysics and Planetary Science, Tel Aviv University, Israel

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Clouds affect our daily weather and play key roles in the global climate. Through their ability to precipitate, clouds provide virtually all of the fresh water on Earth and are a crucial link in the hydrologic cycle. With ever-increasing importance being placed on quantifiable predictions - from forecasting the local weather to anticipating climate change - we must understand how clouds operate in the real atmosphere, where interactions with natural and anthropogenic pollutants are common. This textbook provides students - whether seasoned or new to the atmospheric sciences - with a quantitative yet approachable path to learning the inner workings of clouds. Developed over many years of the authors' teaching at Pennsylvania State University, *Physics and Chemistry of Clouds* is an invaluable textbook for advanced students in atmospheric science, meteorology, environmental sciences/engineering and atmospheric chemistry. It is also a very useful reference text for researchers and professionals.

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A great cloud physics text!

By Scelesti

I'm a PhD student in atmospheric science, and when I took grad-level cloud physics a couple of years ago, there simply wasn't a great grad-level cloud physics text available. We used *A Short Course in Cloud Physics, Third Edition* (International Series in Natural Philosophy) for the course, but after a few weeks it started collecting dust on my bookshelf where it has remained since. My class notes were the only good source of reference material on cloud physics until now, with the publication of the Lamb & Verlinde text.

I highly recommend this book for undergrads, grads, or researchers who deal with cloud microphysics or cloud dynamics on a regular basis. The authors begin with an overview of the role of clouds in the atmosphere, then focus on phase transformations and cloud macrophysics. I'm the most interested in the chapters on cloud microphysics - nucleation, vapor growth, and collision-coalescence. The last part of the book includes chapters that discuss the effects of supersaturation, warm clouds, cold clouds, cloud chemistry, and cloud electrification.

I bought this book for my reference library so I haven't read it cover to cover yet, but I'd recommend it highly to anyone interested in cloud physics.

4 of 5 people found the following review helpful.

Great book that will turn out to be classic.

By Gaopeng Lu

I am an atmospheric researcher major in lightning physics and atmospheric electricity. For certain reason I found it is necessary for me to learn something about cloud physics to extend my lightning and thunderstorm research. I found this book when I searched on Amazon.com, simply it is a new book that just came out this year and it is cheap with free shipping. The thing is, this 'cheap' book is far beyond what I expect with a few bucks. With a strong background in Physics, I can say with pleasure that this book is one of the greatest I have read. Everything about clouds has been explained from fundamental physics mainly in thermodynamics, and therefore the content is easy to catch. Apparently the authors have put a lot of their enthusiasm into this book, and I believe that they have done everything that is possible to guarantee this book is great. Binding is great, and so far I have not found major things to complain about, though there might be something wrong about the index terms.

A very good book I will strongly recommend to senior undergraduate students and graduate students major in meteorology, atmospheric dynamics, climatology, and atmospheric electricity.

By the way, it feels so cool to be the first one who reviews this book.

3 of 4 people found the following review helpful.

Great reference book and great textbook too!

By Subhashree Mishra

This book is a very well written comprehensive book for anyone interested in Cloud Physics. It would serve as a great reference book for undergrads and a good textbook for grad students. I recommend this book to anyone interested in learning more about cloud physics.

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