

Aeronomy of the Middle Atmosphere

Chemistry and Physics of the Stratosphere and Mesosphere

Third revised and enlarged Edition

Guy P. Brasseur and Susan Solomon



Atmospheric and Oceanographic Sciences Library

 Springer

Springer

3rd edition

3rd rev. and enlarged ed.
2005, XII, 646 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4020-3284-4

£ 129,99 | CHF 177,00 | 149,99 € |
164,99 € (A) | 160,49 € (D)

Available

Discount group

Science (SC)

Product category

Monograph

Series

Atmospheric and Oceanographic Sciences Library

Earth Sciences : Atmospheric Sciences

Brasseur, Guy P., Solomon, Susan

Aeronomy of the Middle Atmosphere

Chemistry and Physics of the Stratosphere and Mesosphere

- Comprehensive review of processes that govern the fate of ozone in the stratosphere and mesosphere
- Detailed presentation of processes responsible for the formation of the ozone hole
- Integrated approach highlighting the interactions between dynamical, radiative, chemical processes in the atmosphere from 10 to 100 km altitude

Since the Industrial Revolution the chemical composition of the atmosphere has changed at a rate unprecedented in recent history. Ozone depletion emerged as one of the most important environmental issues of the 20th century as evidence grew for substantial human influences on the atmospheric ozone abundances over much of the globe. The science of the ozone layer and its interactions with halogenated chemical compounds are the primary subjects of this book. The volume provides a comprehensive view of the chemical, dynamical, and radiative processes that affect ozone and other chemicals in the stratosphere and mesosphere. Over recent decades our understanding of these processes has increased dramatically. The discovery of the Antarctic ozone hole has shown that human activities can lead to major changes in our environment. From a review of a previous edition - "[...] an interesting and well-written overview of the current status of our knowledge of the composition of the middle atmosphere and the basic radiative, dynamical and photochemical processes which maintain it." (Bulletin American Meteorological Society)

Order online at springer.com/booksellers

Springer Nature Customer Service Center GmbH

Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-1-4020-3284-4 / BIC: RB / SPRINGER NATURE: SCG36000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**