

Springer

1st
edition1st ed. 2017, XI, 504 p. 211
illus., 183 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-319-59488-0

\$ 219,99

Available

Discount group

Professional Books (2)

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Monograph

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Environment : Atmospheric Protection / Air Quality Control / Air Pollution

Bouarar, I., Wang, X., Brasseur, G.P. (Eds.)

Air Pollution in Eastern Asia: An Integrated Perspective

- Includes fundamental information for policy-makers, environmental managers and other practitioners
- Discusses application of concepts related to atmospheric chemistry and meteorology to real air pollution situations
- Presents the use of satellite information together with surface measurements and models to address air pollution events
- Presents guidelines for future actions to mitigate air pollution

This book, written by an international group of experts from China, Europe and the USA, presents a broad and comprehensive analysis of the chemical and meteorological processes responsible for the formation of air pollutants in eastern Asia, and in particular for the development of severe pollution episodes observed primarily during winter in the northeastern part of China. With the rapid population growth, economic development and urbanization occurring in Asia, air pollution has become a major environmental problem in this part of the world. The book is organized around six distinct parts. The first part of the volume offers a general perspective on issues related to air pollution including persistent haze events in eastern and southern Asia. The second part presents an overview of air pollution sources (i.e., anthropogenic and biomass burning sources). The third part analyzes in-situ observations of chemical species in China, while the fourth part focuses on space observations of gas-phase and aerosol species. The modeling aspects are treated in the fifth part of the volume, which includes a presentation of several air quality forecast systems and an assessment of the role of urbanization on air pollution levels. Finally, the effects of air pollution on health and crop productivity in China are discussed in the last part of the book. The book also presents an integrated view of past and present situations in Asia and provides the scientific basis from which mitigation policies can be established and air quality can be improved.

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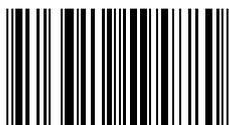
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