



Title: Air Pollution Modelling and its Application XXVIII
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Air Pollution Modelling and its Application XXVIII is an academic publication edited by Clemens Mensink and Oriol Jorba and published by Springer Nature Switzerland AG in 2022. The book contains 353 pages and is part of the *Springer Proceedings in Complexity* series. This publication compiles scientific papers presented during the 38th International Technical Meeting (ITM) on Air Pollution Modelling and its Application held in Barcelona, Spain. The book discusses various aspects of air pollution modelling, atmospheric science, air quality forecasting, pollutant transport, climate change impacts, and environmental health. The contents are divided into several sections including local and urban scale modelling, regional and intercontinental modelling, data assimilation and air quality forecasting, aerosols in the atmosphere, emission modelling, and the effects of air pollution on human health and ecology.

This book provides extensive scientific knowledge regarding modern air pollution modelling techniques and their applications in environmental management. Many chapters explain how mathematical models, satellite data, machine learning, and forecasting systems are used to predict pollutant concentrations and assess environmental impacts. The book also presents case studies from various countries, allowing readers to understand air pollution issues from a global perspective. In addition, the discussions are supported with scientific data, technical analyses, figures, and examples which strengthen the reliability and quality of the information presented.

One of the major strengths of this book is its comprehensive and up-to-date coverage of air pollution modelling technologies and environmental monitoring systems. The organization of the chapters is systematic and easy to follow despite the technical nature of the subject. The book successfully connects air pollution modelling with environmental policy, climate change, urban development, and public health, making it highly relevant to current environmental challenges. However, some parts of the book may be difficult for general readers because many chapters contain

advanced scientific terminology, modelling equations, and technical discussions that require prior knowledge in environmental science or atmospheric studies. Since the book consists of conference papers written by multiple authors, the writing styles and depth of explanations also vary between chapters.

Overall, this book is highly beneficial for environmental officers, researchers, students, policymakers, and individuals involved in air quality management and environmental protection. From a personal perspective, the book is informative and valuable because it provides insight into how scientific modelling and forecasting systems are applied in real-world environmental management. The knowledge gained from this reading can help improve understanding of air pollution issues and strengthen awareness regarding the importance of scientific research and technology in protecting environmental quality and public health. The book can also serve as a useful reference for officers in the Department of Environment (DOE), especially those involved in air quality monitoring, environmental assessment, policy development, and pollution control programs.