

## *Preface*

Pulse detonation engines and rotating detonation engines are considered promising for jet engines of new generation and have been the main subjects of the previous eleven biannual International Colloquia on Pulsed and Continuous Detonations (ICPCD) organized since 1998. This book is addressed to those who are interested in recent accomplishments in basic and applied research on pulse and continuous detonation engines and their numerous design concepts and performances.

Similar to our efforts with previous Colloquia, we have endeavored to revise, thoroughly edit, and publish in this volume the papers presented at the Colloquium held in 2020. The book provides an overview of the state-of-the-art in gaseous and heterogeneous detonations and their application to propulsion and other fields of human activities. Extended up-to-date references as well as authors' affiliations are added so that further information can be readily obtained. To make reading more convenient, an author index is provided at the end of the book. The volume is prepared as a reference for practicing engineers, research scientists working in the field of combustion and propulsion, and graduate students studying the corresponding disciplines.

The Colloquium and this volume are the outcome of hard work of several persons, and we highly appreciate their valuable contributions. In particular, we acknowledge the assistance given at various stages by Ms. Olga Frolova. We thank the staff of TORUS PRESS Publishers for their excellent service in producing the volume and organizing the conference.

We thank the authors for their time and effort in preparing their papers and participation in the Colloquium. We do hope that this volume will serve as a useful addition to the literature on detonation.

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