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Twenty-four selected papers on various aspects of detonation physics and chemistry presented at the International Colloquium on Advanced Experimentation & Computation of Detonations held in St.-Petersburg, September 14-17, 1998, are assembled together in this volume. Presented in the book are the recent advances made in understanding detonation wave initiation, propagation, mitigation, and control through experimental and computational studies. The book contains five Parts: Detonation Initiation, Detonation Wave Structure and Propagation, Detonation Mitigation and Control, Applications of Detonation Phenomena, and Detonability of Advanced Fuels. The volume is intended to be a tool to explore the international state of the art and an avenue for further follow-up for the researchers and practicing engineers.

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