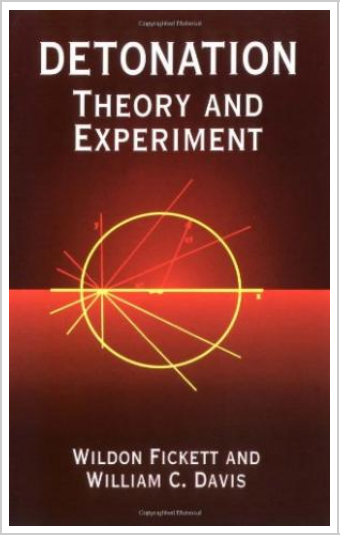

Detonation: Theory and Experiment

By Wildon Fickett

Dover Publications Inc., United States, 2011. Paperback. Book Condition: New. Unabridged. 211 x 137 mm. Language: English . Brand New Book. Detonation, as the authors point out, differs from other forms of combustion in that all the important energy transfer is by mass flow in strong compression waves, with negligible contributions from other processes like heat conduction. Experiments have shown that these waves have a complex transverse structure, and have puzzled scientists by yielding some results that are at odds with the theoretical predictions. This newly corrected edition of a classic in its field serves as a comprehensive review of both experiments and theories of detonation focusing on the steady (i.e. time-independent), fully developed detonation wave, rather than on the initiation or failure of detonation. After an introductory chapter the authors explore the simple theory, including the Zeldovich von Newmann Doering model, and experimental tests of the simple theory. The chapters that follow cover flow in a reactive medium, steady detonation, the nonsteady solution, and the structure of the detonation front. The authors have succeeded in making the detailed, difficult theoretical work more accessible by working out a number of simple cases for illustration. The original edition of this book...

Reviews

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-- ***Kattie Wunsch***