

Springer International
Student Edition

Jürgen Zierep

Theoretical Gasdynamics

Translated by

T.K. BOSE and S. SANTHAKUMAR



Springer-Verlag
Berlin Heidelberg New York

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2-533-5-1

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THEORETICAL GASDYNAMICS combines the contents of two books on general gasdynamics and such advanced topics as transonic and hypersonic flow theories. Written in a very lively and informative style, it provides the engineering student and the practising engineer a book with "a really systematic and tidy presentation of the material, with the emphasis on methods and general principles. . . . One feature of the book is that a good deal of information is given in the form of exercises, for which answers are supplied" (J. Kuechemann in *Journal of Fluid Mechanics*). The list of references in the book is up to date, which is specially useful for a research worker.

JÜRGEN ZIFREP, born in 1929 in Berlin, studied mathematics and did doctorate there with a thesis on wake problems. The author's upbringing - he is a student of Haack and worked with Oswatitsch for a number of years - is strongly evident in his research works. In 1961, he became Professor of Fluidmechanics at Karlsruhe, and got the chair for Fluidmechanics and Fluidpower two years later. He has supervised over 40 doctoral theses, and his list of references contains 81 titles till 1978 (including four books).