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One-dimensional (1-D) flow refers to flow of gas through a duct or channel in which the flow parameters are assumed to change significantly along only one spatial dimension, namely, the duct length. In analysing the 1-D channel flow, a number of assumptions are made:

Compressible flow - Wikipedia

Volume 1 of this book is based on a combination of Maurice Zucrow's book Aircraft and Missile Propulsion, Volume I, Thermodynamics of Fluid Flow and Application to Propulsion Engines and class notes employed in a gas dynamics course taught at Purdue University over the past 12 years by Joe Hoffman.

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