

THE FINITE VOLUME METHOD IN COMPUTATIONAL FLUID DYNAMICS

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- [In the finite volume method, the governing partial differential equations \(typically the Navier-Stokes](#)

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equations, the mass and energy conservation equations, and the turbulence equations) are recast in a conservative form, and then solved over discrete control volumes. [Chapter 05 The Finite Volume Method - aub.edu.lb](#)
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[Finite volume method - Wikipedia](#)

The finite volume method (FVM) is a method for representing and evaluating partial differential equations in the form of algebraic equations [LeVeque, 2002; Toro, 1999]. Similar to the finite difference method or finite element method, values are calculated at discrete places on a meshed geometry.

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The Finite Volume Method (FVM) is one of the most versatile discretization techniques used in CFD. Based on the control volume formulation of analytical fluid dynamics, the first step in the FVM is to divide the domain into a number of control volumes (aka cells, elements) where the variable of interest is located at the centroid of the control

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computational fluid dynamics (CFD). Although the field is still developing, a number of books Although the field is still developing, a number of books have been written. 1,2,3,4,5,6 In particular, the book by Tannehill et al, 1

which appeared in 1997 as a