

Applied Maths 1 In Engineering Mumbai University

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Equation (1.1) is the integral form of conservation of Q . It states that, for any region V , the rate of change of the total amount of Q in V is equal to the rate at which Q flows into through the boundary ∂V plus the rate at which Q is generated by sources inside V . 1.2. Differential form Bringing the time derivative in (1.1) inside the integral over the xed region

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