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Finite Volumes for Complex Applications VIII - Hyperbolic

The PDE governing steady heat conduction is a classical example of an elliptic PDE. 11.6 PARABOLIC PARTIAL DIFFERENTIAL EQUATIONS A classical example of a parabolic PDE is the diffusion equation: $f = a \nabla^2 z$ (III.66) The diffusion equation applies to problems in mass diffusion, momentum diffusion, heat diffusion, etc.

Partial Differential Equations - Middle East Technical

Chapter 3 Classification of PDEs and Related Properties ... parabolic if the flow speed is exactly the sound speed, and elliptic for sub-sonic flow. One also concludes that the problem is always elliptic if the flow is incompressible because in that case the sound speed is infinite such that $M = 0$ always.

Chapter 3 Classification of PDEs and Related Properties

Existence 19. For elliptic operators on vector bundles, i.e., for systems of equations, one generalizes part e) by using the index of P , defined just as for matrices. From part b), $\text{coker } P = \ker \hat{P}$, so, by part a) the index is a finite. Part e) asserts that a scalar elliptic operator has $\text{index } P = 0$.

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