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e in mathematics a partial differential equation pde is an equation which computes a function between various partial derivatives of a multivariable function the function is often thought of as an unknown to be solved for similar to how x is thought of as an unknown number to be solved for in an algebraic equation like x2 3x 2 0

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subsequently the theory of viscosity solutions to nonlinear equations is developed and proofs are provided for the main known results in this context the analysis finishes with the investigation of obstacle problems for integro differential operators and establishes the regularity of solutions and free boundaries

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