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[Stable Solutions of Elliptic Partial Differential Equations](#) offers a self-contained presentation of the notion of stability in elliptic partial differential equations (PDEs). The central questions of regularity and classification of stable solutions are treated at length.

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The simplest nontrivial examples of elliptic PDE's are the Laplace equation, $\Delta u = u_{xx} + u_{yy} = 0$, and the Poisson equation, $\Delta u = u_{xx} + u_{yy} = f(x, y)$.

Elliptic partial differential equation - Wikipedia

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Stable Solutions of Elliptic Partial Differential ...

Stable solutions of elliptic partial differential equations offers a self-contained presentation of the notion of stability in elliptic partial differential equations (pdes). Elliptic partial differential equations (pdes) are frequently used to model a variety of engineering phenomena, such as steady-state heat conduction in a solid, or reaction-diffusion type problems.

Stable Solutions of Elliptic Partial Differential ...

$E[u^*] = \int_{\Omega} f_0(u) dx$: Then, one says that u is a stable solution of equation (1.1) in Ω if the second variation is non-negative, namely, $\int_{\Omega} f_0''(u) dx \geq 0$ for all $\varphi \in C_0^\infty(\Omega)$: Note that stability of u is considered within the class of functions agreeing with u on the boundary of Ω .

Stable solutions to semilinear elliptic equations are ...

Stable solutions to some elliptic problems: minimal cones, the Allen-Cahn equation, and blow-up solutions, with G. Poggesi. 2018. They contain proofs of the Simons and the Bombieri-De Giorgi-Giusti theorems on minimal cones

Research - Xavier Cabré - MAT UPC

L. Dupaigne, [Stable Solutions of Elliptic Partial Differential Equations](#), Chapman and Hall/CRC, 2011. [Google Scholar](#) [11] R. L. Frank and E. Lenzmann, Uniqueness of non-linear ground states for fractional Laplacians in \mathbb{R}^n , *Acta Math.*, 210 (2013), 261-318. doi: 10.1007/s11511-013-0095-9. [Google Scholar](#) ...

Regularity of radial stable solutions to semilinear ...

[Elliptic Partial-Differential Equations](#). Look for people, keywords, and in Google: [Topic 15.2: Elliptic Partial-Differential Equations \(Examples\) ...](#) The solutions to the Poisson equation for values of $g \in [0, 4]$. What Poisson's equation is dictating is that locally, the solution will look like $x^2 + y^2$.

Topic 15.2: Elliptic Partial-Differential Equations (Examples)

In the theory of partial differential equations, elliptic operators are differential operators that generalize the Laplace operator. They are defined by the condition that the coefficients of the highest-order derivatives be positive, which implies the key property that the principal symbol is invertible, or equivalently that there are no real characteristic directions. Elliptic operators are typical of potential theory, and they appear frequently in electrostatics and continuum mechanics. Ellip

Elliptic operator - Wikipedia

(1981). A priori bounds for positive solutions of nonlinear elliptic equations. *Communications in Partial Differential Equations*: Vol. 6, No. 8, pp. 883-901.

A priori bounds for positive solutions of nonlinear ...

Louis' earliest work, in the 1950's, solved two longstanding problems from geometry by proving new estimates for fully-nonlinear elliptic equations. Over the course of his long and productive career his achievements included the solution of many other important problems, and—equally significant—the introduction of many new ideas and techniques.

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Research includes mathematical analysis, partial differential equations, numerical analysis, applied probability, dynamical systems, multiscale modeling, high performance scientific computation, and numerical optimization with applications in optics and photonics, material science, machine learning, data science, imaging science, biology, and climate modeling, to name a few.