

Singularities of applications differentiable

Editions Mir - Nonlinear PDE. Singularities, Propagation, Applications



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Seminar on Singularities of Solutions of Linear Partial Differential Equations. (AM

. Hence a singular problem is replaced by a regular one, which facilitates further analysis of the system.

A note on linear deformations of plane curve singularities (Singularity theory of differential maps and its applications)

If the leading symbol of the pseudo-differential equation under study takes complex values it is often necessary to consider complex valued phase functions. It is natural to ask what kind of real singularities having properties similar to complex singularities.

Pseudo

. Among the topics covered are: construction of new knot invariants, stable cohomology of complementary spaces to diffusion diagrams, topological properties of spaces of Legendre maps, application of Weierstrass bifurcation points in projective curve flattenings, classification of singularities of projective surfaces with boundary, nonsmoothness of visible contours of smooth convex hypersurfaces, flag manifolds, hyperbolic partial differential systems, and control theory.

Complex differential equation

Algebraic and differential geometry and topology, commutative algebra and group theory are as intimately connected to singularity theory as are dynamical systems theory, control theory, differential equations, quantum mechanical and quasi-classical asymptotics, optics, and functional analysis. A broken Lefschetz fibration is a Lefschetz fibration which may have indefinite fold singularities.

Geometric theory of singularities of solutions of nonlinear differential equations

Book Description: Singularities of solutions of differential equations forms the common theme of these papers taken from a seminar held at the Institute for Advanced Study in Princeton in 1977-1978.

Complex differential equation

However, it is possible to make a harmonic analysis of u at the singularities which. On M is prescribed a linear partial differential operator P .

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