

### **singularities of differentiable maps pdf**

Originally published in the 1980s, *Singularities of Differentiable Maps: The Classification of Critical Points, Caustics and Wave Fronts* was the first of two volumes that together formed a translation of the authors' influential Russian monograph on singularity theory. This uncorrected softcover reprint of the work brings its still-relevant content back into the literature, making it available and affordable to a global audience of researchers and practitioners.

### **Singularities of Differentiable Maps, Volume 1 | SpringerLink**

The present volume is the second volume of the book "Singularities of Differentiable Maps" by V.I. Arnold, A. N. Varchenko and S. M. Gusein-Zade.

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This monograph is suitable for mathematicians, researchers, postgraduates, and specialists in the areas of mechanics, physics, technology, and other sciences dealing with the theory of singularities of differentiable maps.

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For a smooth map  $f : M \rightarrow N$ , a point  $p \in M$  is a singular point of  $f$  if its differential  $df_p : T_p M \rightarrow T_p N$  has rank strictly smaller than  $\min\{\dim M, \dim N\}$ . Singularities of  $C^1$  stable maps have been extensively studied. For example, there are classification results by means of algebraic invariants (for example, see [4]).

## **TOPOLOGY OF MANIFOLDS AND SINGULARITIES OF DIFFERENTIABLE MAPS**

A. P. Chekhov. "On the road" In this book a start is made to the "zoology" of the singularities of differentiable maps. This theory is a young branch of analysis which currently occupies a central place in mathematics; it is the crossroads of paths leading from very abstract corners of mathematics (such as algebraic and differential geometry ...

## **Singularities of Differentiable Maps - Volume I: The**

Singularity theory is a far-reaching extension of maxima and minima investigations of differentiable functions, with implications for many different areas of mathematics, engineering (catastrophe theory and the theory of bifurcations), and science.

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