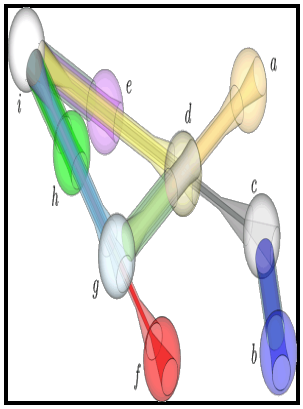
Morse theory

Princeton University Press - Morse Theory (Annals of Mathematic Studies AM



Description: -
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Air defenses -- Great Britain -- History.
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Annals of mathematics studies -- no. 51.Morse theory
Notes: Includes bibliography.
This edition was published in 1969

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Tags: #A #visual #introduction #to #Morse #theory

Morse Theory

The presentation is broad, ranging from abstract topics, such as formulation of the entire theory using poset maps with small fibers, to heavily computational aspects, providing, for example, a specific algorithm of finding an explicit homology basis starting from an acyclic matching. At present 1989 Morse theory 3 is at an initial stage and has been constructed only in a very preliminary context under very strong and clearly not necessary conditions on the model Banach space on separable- and Hilbert-type spaces , when no specifically functional-analytic difficulties arise , although there have been attempts at a construction of Morse theory 3 in fairly general situations. A level set of a simple 1D function Unless there is a horizontal segment in the function, every level set will only consist of a finite number of points here.

A visual introduction to Morse theory

This is actually a common trick in mathematics: if something is too complex to be studied directly, just observe its behaviour when it interacts with something that you understand somewhat better. As we saw earlier, superlevel sets, for example, contain different connected components that merge at a local minimum.

Morse theory

I was unable to track this video down, but I want to believe that it exists. We now connect different critical points according to how the connectivity of the level set changes as we pass a critical value: for example, we connect a local maximum to the local minimum at which it is joining another connected component.

Math392C: Morse Theory

The statements above about extrema thus have to be amended to include them. For this, we need to combine both of them—this means that we have to go back to level sets, though, because we saw earlier that level sets are the intersection of superlevel and sublevel sets. It has found a lot of applications in the field of scientific visualisation.

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