

# Structural diagram of a butterfly-shaped optical cable



## Overview

Catastrophe theory analyzes degenerate critical points of the potential function — points where not just the first derivative, but one or more higher derivatives of the potential function are also zero. These are called the germs of the catastrophe geometries. The degeneracy of these critical points can be unfolded by expanding the potential function as a Taylor series in small perturbations of  $th$ . Overview In, catastrophe theory is a branch of in the study of ; it is. Catastrophe theory studies dynamical systems that describe the evolution of a state variable over time : : In the above equation, is referred to as the potential function, and is often a vector or a scalar whic. Umbilic catastrophes are examples of corank 2 catastrophes. They can be observed in in the created by light reflecting off a surface in three dimensions and are intimately connected. gave some of the catastrophes the, due to a deep connection with. In summary he applies near the of the bifurcation and classify the. As predicted by catastrophe theory, singularities are generic, and stable under perturbation. This explains how the bright lines and surfaces are stable under perturbation. The one sees at the bottom of. • - Physical process transitioning a system from a symmetric state to a more ordered state • - Idea that small causes can have large effects. • (1992) Catastrophe Theory, 3rd ed. Berlin: Springer-Verlag •, V. I. Arnold, et al., Bifurcation Theory And Catastrophe Theory.

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ESPnet2 pretrained model, Shinji

This model was trained by Shinji Watanabe using nsc recipe in espnet. Python APISee github /espnet/espnet\_model\_zoo Evaluate in the recipegit clone https ...

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