applications of category theory pdf

Category theory formalizes mathematical structure and its concepts in terms of a labeled directed graph called a category, whose nodes are called objects, and whose labelled directed edges are called arrows (or morphisms).A category has two basic properties: the ability to compose the arrows associatively, and the existence of an identity arrow for each object.

Category theory - Wikipedia

Volume 33 - 2018. 1. Spans of cospans in a topos Daniel Cicala and Kenny Courser, 1-22 abstract | pdf 2. Actor of a crossed module of Leibniz algebras José Manuel Casas, Rafael Fernández-Casado, Xabier García-Martínez, Emzar Khmaladze, 23-42

Theory and Applications of Categories

In physics, string theory is a theoretical framework in which the point-like particles of particle physics are replaced by one-dimensional objects called strings.These strings look like small segments or loops of ordinary string. String theory describes how strings propagate through space and interact with each other.

Mirror symmetry (string theory) - Wikipedia

This is the first, and so far the only, book to make category theory accessible to non-mathematicians. Starting from the interesting new notion of 'ontological logs' (ologs), the basic concepts of category theory are then introduced where and when needed, inspired by applications.

Category Theory for the Sciences (The MIT Press): David I

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