

<<形状生成理论A generative t>>

图书基本信息

书名：<<形状生成理论A generative theory of shape>>

13位ISBN编号：9783540427179

10位ISBN编号：3540427171

出版时间：2001-11

出版时间：Oversea Publishing House

作者：Michael Leyton

页数：554

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<形状生成理论A generative t>>

内容概要

In this book, the author develops a generative theory of shape with two properties fundamental to intelligence: maximizing transfer of structure, and maximizing recoverability of generative operations. The theory is applied in considerable detail to CAD, perception, and robotics. A significant aspect of this book is the development of an object-oriented theory of geometry. This includes a group-theoretic formulation of object-oriented inheritance. In particular, a class of groups is developed called "unfolding groups", which define any complex shape as unfolded from a maximally collapsed version of itself called an "alignment kernel". The group is decomposed into levels corresponding to the inheritance hierarchy within the complex object. This achieves one of the main goals of the theory - the conversion of complexity into understandability. The advantages of the theory are demonstrated with lengthy studies of robot manipulators, perceptual organization, constructive solid geometry, assembly planning, architectural CAD, and mechanical CAD/CAM.

<<形状生成理论A generative t>>

书籍目录

1.Transfer2.Recoverablidy3.Mathernateal Theory of Transtfer 4.Matheneations Theory of Tisitfst II5.Theory of Grutfug6.Robot Mangipiators7.Aigelaeti Tbery of Intheiarse8.Referrefce Frecanes9.Release Mthoban10.Sterfese Prthintes11.Unfodding Cirpiti I12.Unfodding Cirpiti II13.Unfodding Cirpiti III14.Methatrif Indeing and Mandfeujing15.A Mteherial Tbeery of Arthertes16.Solid structure17.Wreath Formulation of SSplines18.Wreath Fermatition of Sweep Represctionels19.Praces Greuser20.Conseer Laws of Plyslcs21.Music22.Ageinsot the Frlenger ProgranA.Semi-dinerst PrsdessB.SynbodsReidrelesIndex

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>