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Geometric Algebra For Computer Science

Preview of the Book. To get an idea of the book, we have various previews available: the cover and the back cover text; a chapter-by-chapter tour of the book; some screenshots of the programming examples; full-text-pdf of Table of Contents; Lists of Figures, Tables, Exercises; Preface; full-text-pdf of Chapter 1: Introduction

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In geometric algebra, you can use a unit vector a as a reflection

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operator by employing it in a sandwiching product: $a \cdot x \cdot a$ reflects the vector x in the line of a . It then follows from the figure that the geometric product of two unit vectors $R = b \cdot a$ fully encodes the rotation as a double reflection.

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jects on a computer for industrial design, manufacture, architecture, and entertainment. The subjects histories are also disjoint, with geometric modeling residing in the realm of computer science and using mathematical tools from numerical analysis and approximation theory while algebraic geometry is firmly anchored within classical mathematics.

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Hal Abelson One of the most important fields of application for Geometric algebra can be found in Computer Science. In this post, I interview 3 leading researchers who apply Geometric Algebra in their work to share their valuable experience and insights.

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