Viewpoints: Mathematical Perspective and Fractal Geometry in Art

Marc Frantz, Annalisa Crannell

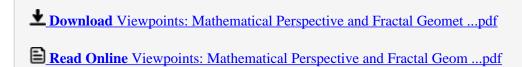# Viewpoints: Mathematical Perspective and Fractal Geometry in Art

Marc Frantz, Annalisa Crannell

Viewpoints: Mathematical Perspective and Fractal Geometry in Art Marc Frantz, Annalisa Crannell

An undergraduate textbook devoted exclusively to relationships between mathematics and art, *Viewpoints* is ideally suited for math-for-liberal-arts courses and mathematics courses for fine arts majors. The textbook contains a wide variety of classroom-tested activities and problems, a series of essays by contemporary artists written especially for the book, and a plethora of pedagogical and learning opportunities for instructors and students.

Viewpoints focuses on two mathematical areas: perspective related to drawing man-made forms and fractal geometry related to drawing natural forms. Investigating facets of the three-dimensional world in order to understand mathematical concepts behind the art, the textbook explores art topics including comic, anamorphic, and classical art, as well as photography, while presenting such mathematical ideas as proportion, ratio, self-similarity, exponents, and logarithms. Straightforward problems and rewarding solutions empower students to make accurate, sophisticated drawings. Personal essays and short biographies by contemporary artists are interspersed between chapters and are accompanied by images of their work. These fine artists--who include mathematicians and scientists--examine how mathematics influences their art. Accessible to students of all levels, *Viewpoints* encourages experimentation and collaboration, and captures the essence of artistic and mathematical creation and discovery.

- Classroom-tested activities and problem solving
- Accessible problems that move beyond regular art school curriculum
- Multiple solutions of varying difficulty and applicability
- Appropriate for students of all mathematics and art levels
- Original and exclusive essays by contemporary artists
- Forthcoming: Instructor's manual (available only to teachers)

Download and Read Free Online Viewpoints: Mathematical Perspective and Fractal Geometry in Art Marc Frantz, Annalisa Crannell

Download and Read Free Online Viewpoints: Mathematical Perspective and Fractal Geometry in Art Marc Frantz, Annalisa Crannell

---

From reader reviews:

Jennifer Phinney:

Book is actually written, printed, or highlighted for everything. You can recognize everything you want by a book. Book has a different type. To be sure that book is important point to bring us around the world. Beside that you can your reading talent was fluently. A guide Viewpoints: Mathematical Perspective and Fractal Geometry in Art will make you to become smarter. You can feel a lot more confidence if you can know about every thing. But some of you think that will open or reading the book make you bored. It isn't make you fun. Why they might be thought like that? Have you in search of best book or suited book with you?

Eleanor Walker:

Reading a publication can be one of a lot of activity that everyone in the world really likes. Do you like reading book therefore. There are a lot of reasons why people enjoy it. First reading a publication will give you a lot of new details. When you read a book you will get new information mainly because book is one of several ways to share the information as well as their idea. Second, studying a book will make you more imaginative. When you reading through a book especially fiction book the author will bring you to definitely imagine the story how the personas do it anything. Third, it is possible to share your knowledge to other folks. When you read this Viewpoints: Mathematical Perspective and Fractal Geometry in Art, you may tells your family, friends and also soon about yours book. Your knowledge can inspire others, make them reading a book.

Edward Avelar:

The reason? Because this Viewpoints: Mathematical Perspective and Fractal Geometry in Art is an unordinary book that the inside of the e-book waiting for you to snap that but latter it will surprise you with the secret the idea inside. Reading this book beside it was fantastic author who have write the book in such incredible way makes the content interior easier to understand, entertaining method but still convey the meaning fully. So , it is good for you for not hesitating having this nowadays or you going to regret it. This unique book will give you a lot of gains than the other book have such as help improving your talent and your critical thinking way. So , still want to delay having that book? If I had been you I will go to the book store hurriedly.

Edward White:

A lot of guide has printed but it differs. You can get it by web on social media. You can choose the most effective book for you, science, witty, novel, or whatever simply by searching from it. It is called of book Viewpoints: Mathematical Perspective and Fractal Geometry in Art. Contain your knowledge by it. Without departing the printed book, it could add your knowledge and make you happier to read. It is most crucial that, you must aware about reserve. It can bring you from one place to other place.

Download and Read Online Viewpoints: Mathematical Perspective and Fractal Geometry in Art Marc Frantz, Annalisa Crannell #7XGLF5CDJAB

Read Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell for online ebook

Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell books to read online.

Online Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell ebook PDF download

Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell Doc

Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell Mobipocket

Viewpoints: Mathematical Perspective and Fractal Geometry in Art by Marc Frantz, Annalisa Crannell EPub