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The present book provides an introduction to using space-filling curves (SFC) as tools in scientific computing. Special focus is laid on the representation of SFC and on resulting algorithms. For example, grammar-based techniques are introduced for traversals of Cartesian and octree-type



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meshes, and arithmetisation of SFC is explained to compute SFC mappings and indexings.

## **13.1 Space Curves**

Introduction. The subject of space-filling curves has fascinated mathematicians for over a century and has intrigued many generations of students of

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mathematics. Working in this area is like skating on the edge of reason.

Unfortunately, ...

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book "Space-Filling Curves - An Introduction with Applications in Scientific Computing" by Michael Bader published in the series Texts in Computational Science and Engineering by Springer. Course Material. The website is still a bit "under construction" - but in any case, I will strive to constantly add further ...

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## **Space-Filling Curves | SpringerLink**

1. Introduction This text is interpreted as a general introduction to the concept of space-filling curves (SFCs). It is mainly a résumé of the presentation I held on the subject for the Joint Advanced Student School 2005. The text covers a short treatment of the most frequently

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In mathematical analysis, a space-filling curve is a curve whose range contains the entire 2-dimensional unit square (or more generally an  $n$ -dimensional unit hypercube). Because Giuseppe Peano (1858–1932) was the first to discover

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one, space-filling curves in the 2-dimensional plane are sometimes called Peano curves, but that phrase also refers to the Peano curve, the specific example of a ...

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introduction to the algorithmics of space-filling curves. ... The book has many color illustrations and can be used as a textbook and as reference monograph for research.” (Luiz Henrique de Figueiredo, MAA Reviews, April, 2013)  
“This is a gentle introduction to space filling curves.



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traversals of Cartesian and octree-type meshes, and arithmetisation of SFC is explained to compute SFC mappings and indexings.

## **Amazon.com: Customer reviews: Space-Filling Curves: An ...**

The first family is the collection of all Peano curves, that is, of those

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continuous mappings onto the unit square. The second one is the bigger set of all space-filling curves, i.e. of those continuous functions  $I \rightarrow \mathbb{R}^2$  whose images have the positive Jordan content.

## **Space-Filling Curves An Introduction**

-The present book provides an introduction to using space-filling curves

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(SFC) as tools in scientific computing. Special focus is laid on the representation of SFC and on resulting algorithms. For example, grammar-based techniques are introduced for traversals of Cartesian and octree-type meshes, and arithmetisation of SFC is explained to compute SFC mappings and indexings.

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## **Space-Filling Curves | SpringerLink**

Springer-Verlag, Berlin, Heidelberg, 2013. 285 p. Texts in Computational Science and Engineering 9 ISBN:

9783642310454 Space-filling curves

started their lives as mathematical curiosities, at the end of the nineteenth century. The idea that a one-dimensional

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same way as you are hunting the space

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## **Space-Filling-Curves.Org**

This is a gentle introduction to space filling curves. Emphasis is on the representation, implementation and application in computer science. A situation where they are useful is an

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(adaptive) subdivision scheme that is represented by a tree, and the space filling curve will then have to visit all the leaves of the tree in some order.

## **Space-Filling Curves : An Introduction with Applications ...**

Space-Filling Curve. A space-filling curve (SFC) is a way of mapping a



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multi-dimensional space into a one-dimensional space. It acts like a thread that passes through every cell element (or pixel) in the multi-dimensional space so that every cell is visited exactly once. Thus, a space-filling curve imposes a linear order of points in the ...

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## **Review: Space-Filling Curves. An Introduction with ...**

Those space filling curves allow to keep locality in multiple dimensions when you "walk" linearly along the curve. From what I have seen, Z-Order (also known as Morton code) is the most employed because of its computational cost which is constant (and cheap) to access any

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point of the curve directly.

## **Space-Filling Curves - Riemann Sphere**

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Special focus is laid on the  
representation of SFC and on resulting

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algorithms. For example, grammar-based techniques are introduced for traversals of Cartesian and octree-type meshes, and arithmetisation of SFC is explained to compute SFC mappings and indexings.

**What is the difference between various space-filling curves?**

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Ex 13.1.2 Describe the curve  $\{\mathbf{r}\} = \langle t \cos t, t \sin t, t \rangle$ . Ex

13.1.3 Describe the curve  $\{\mathbf{r}\} = \langle t, t^2, \cos t \rangle$ . Ex

13.1.4 Describe the curve  $\{\mathbf{r}\} = \langle \cos(20t)\sqrt{1-t^2}, \sin(20t)\sqrt{1-t^2}, t \rangle$  Ex 13.1.5 Find a vector

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