



# The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory)

By Jaap A. Kaandorp, Janet E. Kübler

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**The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory) By Jaap A. Kaandorp, Janet E. Kübler Bibliography**

- Sales Rank: #4391856 in eBooks
- Published on: 2001-09-28
- Released on: 2001-11-09
- Format: Kindle eBook

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## **Editorial Review**

Review

From the reviews:

"Sessile marine organisms, like sponges or corals, are often modular organisms, typically built of repeated units, the modules. ... Improved computing methods have made it possible to simulate the growth of such organisms ... . This volume is the outcome of a 1999 conference. It is mainly devoted to the interaction of biology and computing. Many figures confronting photos of live animals with computer generated simulations give a good impression for the non-specialist." (Benno Artmann, Zentralblatt MATH, Vol. 1007, 2003)

"The purpose of this book ... is to 'provide an overview of how simulation models can provide insights into the growth and forms of seaweeds, sponges, corals and other marine sessile organisms. ... the text as a whole has coherence and balance. It is beautifully, if sometimes eccentrically, illustrated with photographs, drawings and computer simulations. It provides a clear and much-needed summary of the state of the art in this difficult but important area of biological simulation that will appeal to the specialist.'" (Michael Whitfield, Times Higher Education Supplement, November, 2002)

"Jaap Kaandorp and Janet Kübler's book *The Algorithmic Beauty of Seaweeds, Sponges and Corals* covers the modelling of the growth and form of some organisms. Lots of detail is provided for the biology ... . there is enough information to encourage investigations – and the many wonderful illustrations help to spur on the reader." (Andrew Bowler, *New Scientist*, March, 2002)

From the Back Cover

This book gives a state-of-the-art overview of modeling growth and form of marine sessile organisms - such as stromatolites, algae, and metazoans including stony corals, hydrocorals, octocorals, and sponges -, using large-scale computing techniques, scientific visualization, methods for analyzing 2D and 3D forms, and particle-based modeling techniques. It originates from the workshop on Modeling Growth and Form of Marine Sessile Organisms, held at the National Center for Ecological Analysis and Synthesis, Santa Barbara, California, August 1999. Experts from various disciplines including developmental biology, ecology, computer science, physics and mathematics, who have research interests in modeling the development of these organisms have been invited to contribute. The book describes all the steps required to develop and experimentally validate morphological models including collecting biological information and methods for specifying and comparing forms. Examples are given of how models are currently being applied to simulate growth and form of marine sessile organisms. Potential applications of growth models and morphological analyses in modern and paleo-bio-monitoring, the detection of environmental change, and the conservation and restoration of marine ecosystems and aquaculture are addressed. The combination of simulation models with laboratory and field experiments provides a powerful tool to obtain insights on how the growth forms of marine organisms emerge from physical, genetic and environmental influences.

## **Users Review**

**From reader reviews:**

**Catherine Rubio:**

Here thing why this specific The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory) are different and trustworthy to be yours. First of all looking at a book is good however it depends in the content from it which is the content is as delicious as food or not. The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory) giving you information deeper and in different ways, you can find any reserve out there but there is no guide that similar with The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory). It gives you thrill examining journey, its open up your current eyes about the thing this happened in the world which is probably can be happened around you. It is possible to bring everywhere like in recreation area, café, or even in your approach home by train. For anyone who is having difficulties in bringing the paper book maybe the form of The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory) in e-book can be your option.

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**Mitchell Peed:**

The book untitled The Algorithmic Beauty of Seaweeds, Sponges and Corals (The Virtual Laboratory) contain a lot of information on the item. The writer explains the woman idea with easy approach. The language is very simple to implement all the people, so do definitely not worry, you can easy to read the item. The book was compiled by famous author. The author provides you in the new period of time of literary works. You can easily read this book because you can read more your smart phone, or device, so you can read the book throughout anywhere and anytime. If you want to buy the e-book, you can available their official web-site as well as order it. Have a nice go through.

**James Sanchez:**

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