



# A Grain of Sand: Nature's Secret Wonder

By Gary Greenberg

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**A Grain of Sand: Nature's Secret Wonder** By Gary Greenberg

*"To see a world in a grain of sand, And a heaven in a wild flower. To hold infinity in the palm of your hand, And eternity in an hour."*

**William Blake, "Auguries of Innocence" 1805**

Here is the world viewed within a grain of sand, thanks to the stunning three-dimensional microphotography of Dr. Gary Greenberg. To some, all sand looks alike--countless grains in a vast expanse of beach. Look closer--much closer--and your view of sand will never be the same. Employing the fantastic microphotographic techniques that he developed, Greenberg invites readers to discover the strange and wonderful world that each grain of sand contains.

Here are the sands of Hawaii and Tahiti, the Sahara and the Poles, a volcano, each exquisitely different, and each telling a fascinating geological story. Red sand and yellow, white sand and black, singing sand and quicksand: Greenbergs pictures reveal the subtle differences in their colors, textures, sizes, and shapes. And as this infinitesimal world unfolds so does an intriguing explanation of how each grain of sand begins and forms and finds itself in a particular place, one of a billion and one of a kind.

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## A Grain of Sand: Nature's Secret Wonder By Gary Greenberg Bibliography

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### Editorial Review

#### Review

#### **Shutterbug, October 2008**

Sand, it's everywhere and may seem ordinary but Dr. Gary Greenberg expertly combined art and science to reveal the true beauty of each microscopic grain.

Sand consists of a vast collection of bits of crystals, coral, shells, sea urchin spines, silica, and calcium carbonate each with a unique shape and color.

Dr. Greenberg provided 235 vividly colored images and in depth information to provide a fascinating look at how nature is constantly reshaping the earth and

hiding tiny treasures at our feet.

#### From the Inside Flap

Every grain of sand is a jewel waiting to be discovered. That's what Dr. Gary Greenberg found when he first turned his microscope on beach sand. Gemlike minerals, colorful coral fragments, and delicate microscopic shells revealed that sand comprises much more than little brown rocks. Amazing microphotography showcases spectacular colors, shapes, and patterns. Join Dr. Greenberg as he explores the science and beauty of the sand grain. With this captivating volume, you will never look at a beach the same way again.

Author and photographer Dr. Gary Greenberg is a visual artist who creatively combines art with science. He has a Ph.D. in biomedical research from University College London and holds 17 patents for high-definition 3-D light microscopes. Dr. Greenberg lives in Haiku, Hawaii.

Foreword writer Stacy Keach is an actor renowned for his narration of scientific documentaries, particularly the NOVA series for the Public Broadcasting Service.

#### From the Back Cover

Every grain of sand is a jewel waiting to be discovered. That's what Dr. Gary Greenberg found when he first turned his specially designed 3-D microscope on beach sand. Gemlike mineral grains, colorful coral fragments, and delicate microscopic shells revealed that sand comprises much more than little brown rocks.

From the star-shaped sand of Japan to the volcanic green olivine of Hawaii to the marble grains of Greece, discover the diversity of sand on gorgeous, remote beaches around the globe. Learn about beach ecology and the fascinating origins of sand grains, including the singing sand dunes of the Sahara Desert. Marvel over Dr. Greenberg's amazing microphotography that magnifies sand grains up to 300 times and showcases the spectacular colors, shapes, and patterns of these tiny natural wonders.

When we walk along a beach, we tread upon millions of years of biological and geological history. Join Dr. Greenberg as he explores the science and beauty of the sand grain. With this captivating volume, you will never look at a beach the same way again.

## **Users Review**

### **From reader reviews:**

#### **Ginger Amundson:**

Do you among people who can't read pleasant if the sentence chained inside the straightway, hold on guys this particular aren't like that. This A Grain of Sand: Nature's Secret Wonder book is readable simply by you who hate those straight word style. You will find the data here are arrange for enjoyable studying experience without leaving perhaps decrease the knowledge that want to deliver to you. The writer of A Grain of Sand: Nature's Secret Wonder content conveys the idea easily to understand by many individuals. The printed and e-book are not different in the content but it just different such as it. So , do you still thinking A Grain of Sand: Nature's Secret Wonder is not loveable to be your top list reading book?

#### **Annie Hendricks:**

Nowadays reading books be a little more than want or need but also be a life style. This reading practice give you lot of advantages. The benefits you got of course the knowledge the particular information inside the book this improve your knowledge and information. The info you get based on what kind of book you read, if you want attract knowledge just go with education and learning books but if you want really feel happy read one along with theme for entertaining like comic or novel. The actual A Grain of Sand: Nature's Secret Wonder is kind of guide which is giving the reader unpredictable experience.

#### **Charles Montiel:**

The book untitled A Grain of Sand: Nature's Secret Wonder is the publication that recommended to you you just read. You can see the quality of the reserve content that will be shown to you. The language that writer use to explained their way of doing something is easily to understand. The author was did a lot of analysis when write the book, and so the information that they share for your requirements is absolutely accurate. You also will get the e-book of A Grain of Sand: Nature's Secret Wonder from the publisher to make you considerably more enjoy free time.

#### **Candace Arroyo:**

Is it an individual who having spare time then spend it whole day through watching television programs or just telling lies on the bed? Do you need something totally new? This A Grain of Sand: Nature's Secret Wonder can be the solution, oh how comes? The new book you know. You are thus out of date, spending your extra time by reading in this brand new era is common not a nerd activity. So what these ebooks have than the others?

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