



Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books)

By Claudio Maccone

Download now

Read Online ➔

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone

This book introduces the Statistical Drake Equation where, from a simple product of seven positive numbers, the Drake Equation is turned into the product of seven positive random variables. The mathematical consequences of this transformation are demonstrated and it is proven that the new random variable N for the number of communicating civilizations in the Galaxy must follow the lognormal probability distribution when the number of factors in the Drake equation is allowed to increase at will.

Mathematical SETI also studies the proposed FOCAL (Fast Outgoing Cyclopean Astronomical Lens) space mission to the nearest Sun Focal Sphere at 550 AU and describes its consequences for future interstellar precursor missions and truly interstellar missions. In addition the author shows how SETI signal processing may be dramatically improved by use of the Karhunen-Loève Transform (KLT) rather than Fast Fourier Transform (FFT). Finally, he describes the efforts made to persuade the United Nations to make the central part of the Moon Far Side a UN-protected zone, in order to preserve the unique radio-noise-free environment for future scientific use.

📄 [Download Mathematical SETI: Statistics, Signal Processing, ...pdf](#)

📖 [Read Online Mathematical SETI: Statistics, Signal Processing ...pdf](#)

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books)

By Claudio Maccone

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone

This book introduces the Statistical Drake Equation where, from a simple product of seven positive numbers, the Drake Equation is turned into the product of seven positive random variables. The mathematical consequences of this transformation are demonstrated and it is proven that the new random variable N for the number of communicating civilizations in the Galaxy must follow the lognormal probability distribution when the number of factors in the Drake equation is allowed to increase at will.

Mathematical SETI also studies the proposed FOCAL (Fast Outgoing Cyclopean Astronomical Lens) space mission to the nearest Sun Focal Sphere at 550 AU and describes its consequences for future interstellar precursor missions and truly interstellar missions. In addition the author shows how SETI signal processing may be dramatically improved by use of the Karhunen-Loève Transform (KLT) rather than Fast Fourier Transform (FFT). Finally, he describes the efforts made to persuade the United Nations to make the central part of the Moon Far Side a UN-protected zone, in order to preserve the unique radio-noise-free environment for future scientific use.

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone Bibliography

- Rank: #4144754 in Books
- Published on: 2012-08-30
- Original language: English
- Number of items: 1
- Dimensions: 9.46" h x 1.77" w x 6.33" l, 2.63 pounds
- Binding: Paperback
- 724 pages



[Download Mathematical SETI: Statistics, Signal Processing, ...pdf](#)



[Read Online Mathematical SETI: Statistics, Signal Processing ...pdf](#)

Editorial Review

From the Back Cover

This book introduces the Statistical Drake Equation where, from a simple product of seven positive numbers, the Drake Equation is turned into the product of seven positive random variables. The mathematical consequences of this transformation are demonstrated and it is proven that the new random variable N for the number of communicating civilizations in the Galaxy must follow the lognormal probability distribution when the number of factors in the Drake equation is allowed to increase at will.

Mathematical SETI also studies the proposed FOCAL (Fast Outgoing Cyclopean Astronomical Lens) space mission to the nearest Sun Focal Sphere at 550 AU and describes its consequences for future interstellar precursor missions and truly interstellar missions. In addition the author shows how SETI signal processing may be dramatically improved by use of the Karhunen-Loève Transform (KLT) rather than Fast Fourier Transform (FFT). Finally, he describes the efforts made to persuade the United Nations to make the central part of the Moon Far Side a UN-protected zone, in order to preserve the unique radio-noise-free environment for future scientific use.

Users Review

From reader reviews:

Kim Townsend:

Throughout other case, little people like to read book Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books). You can choose the best book if you love reading a book. As long as we know about how is important the book Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books). You can add understanding and of course you can around the world by the book. Absolutely right, due to the fact from book you can learn everything! From your country right up until foreign or abroad you will be known. About simple matter until wonderful thing you are able to know that. In this era, we can open a book or searching by internet device. It is called e-book. You can use it when you feel bored stiff to go to the library. Let's study.

Teresa Raap:

Here thing why this particular Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) are different and reliable to be yours. First of all reading through a book is good nonetheless it depends in the content of computer which is the content is as scrumptious as food or not. Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) giving you information deeper including different ways, you can find any publication out there but there is no publication that similar with Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books). It gives you thrill studying journey, its open up your current eyes about the thing in which happened in the world which is maybe can be happened around you. You can actually bring everywhere like in recreation area, café, or even in your method home by train. Should you be having difficulties in bringing the printed book maybe the form

of Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) in e-book can be your alternate.

Calvin Baker:

This book untitled Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) to be one of several books in which best seller in this year, that's because when you read this publication you can get a lot of benefit on it. You will easily to buy that book in the book retail outlet or you can order it by way of online. The publisher of the book sells the e-book too. It makes you quickly to read this book, because you can read this book in your Smartphone. So there is no reason for your requirements to past this e-book from your list.

Chester Grantham:

Are you kind of hectic person, only have 10 or even 15 minute in your moment to upgrading your mind skill or thinking skill also analytical thinking? Then you have problem with the book than can satisfy your small amount of time to read it because this time you only find book that need more time to be examine. Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) can be your answer given it can be read by you who have those short spare time problems.

Download and Read Online Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone #C8SKMU5G2QB

Read Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone for online ebook

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone 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 Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone books to read online.

Online Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone ebook PDF download

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone Doc

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone Mobipocket

Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone EPub

C8SKMU5G2QB: Mathematical SETI: Statistics, Signal Processing, Space Missions (Springer Praxis Books) By Claudio Maccone