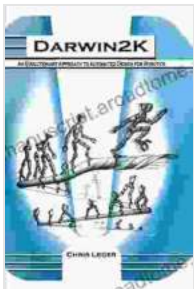


An Evolutionary Approach to Automated Design for Robotics

By [Author Name]

This book provides a comprehensive to the field of evolutionary design for robotics, focusing on the use of evolutionary algorithms to automate the design process.



Darwin2K: An Evolutionary Approach to Automated Design for Robotics (The Springer International Series in Engineering and Computer Science Book 574)

by Chris Leger

★★★★★ 5 out of 5

Language : English

File size : 4508 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Word Wise : Enabled

Print length : 284 pages



Evolutionary design is a powerful technique that can be used to create robots that are more efficient, more robust, and more adaptable than those designed using traditional methods. By using evolutionary algorithms, designers can search a vast space of possible designs and identify the ones that best meet their needs.

This book covers all the essential aspects of evolutionary design for robotics, including:

- The basics of evolutionary algorithms
- The different types of evolutionary design methods
- The applications of evolutionary design to robotics

The book also includes a number of case studies that illustrate how evolutionary design has been used to create successful robots.

Benefits of Evolutionary Design for Robotics

There are many benefits to using evolutionary design for robotics, including:

- **Increased efficiency:** Evolutionary design can be used to create robots that are more efficient in terms of energy consumption, speed, and accuracy.
- **Increased robustness:** Evolutionary design can be used to create robots that are more robust to environmental disturbances and mechanical failures.
- **Increased adaptability:** Evolutionary design can be used to create robots that can adapt to changing environments and tasks.

Applications of Evolutionary Design for Robotics

Evolutionary design has been used to create a wide variety of robots, including:

- Legged robots
- Wheeled robots
- Flying robots
- Swimming robots
- Humanoid robots

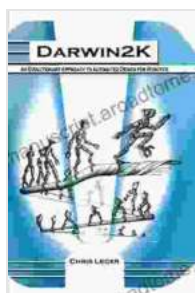
Evolutionary design is a powerful technique that can be used to create robots that are more efficient, more robust, and more adaptable. This book provides a comprehensive to the field of evolutionary design for robotics, and is an essential resource for anyone interested in this exciting new field.

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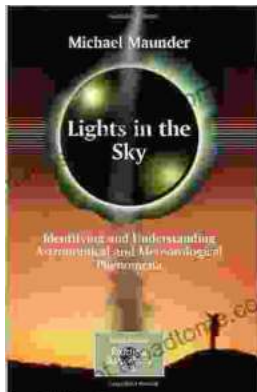
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