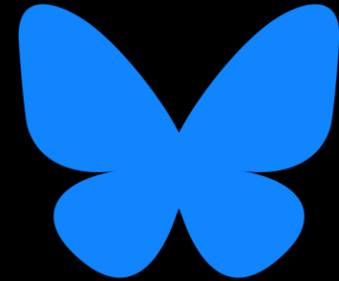




Meetup



Berlin Code of Conduct

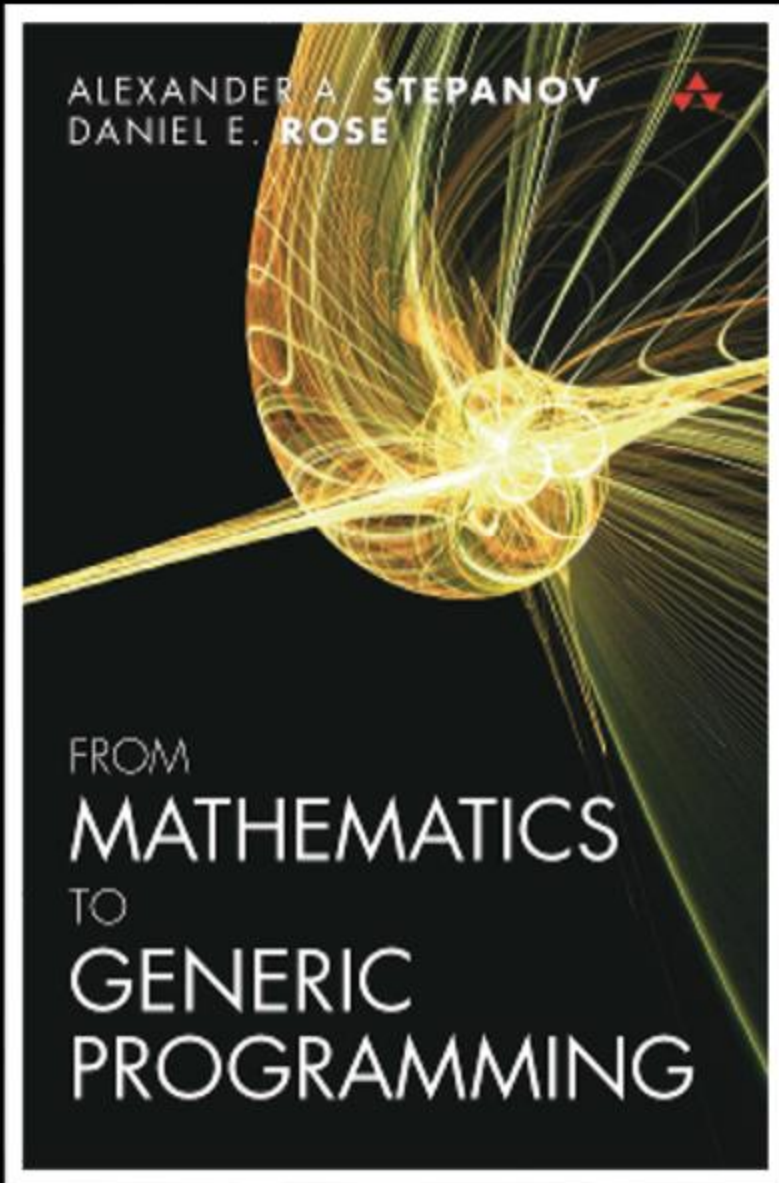


Discord Link: <https://discord.gg/nxwbTHd>

Github Repo: <https://github.com/codereport/FM2GP-2025>

code_report: [Twitter](#) | [BlueSky](#) | [Mastodon](#)

CoC: <https://berlincodeofconduct.org/>



From Mathematics to Generic Programming

Chapter 4

- 1. What This Book Is About**
- 2. The First Algorithm**
- 3. Ancient Greek Number Theory**
- 4. Euclid's Algorithm**
- 5. The Emergence of Modern Number Theory**
- 6. Abstraction in Mathematics**
- 7. Deriving a Generic Algorithm**
- 8. More Algebraic Structures**
- 9. Organizing Mathematical Knowledge**
- 10. Fundamental Programming Concepts**
- 11. Permutation Algorithms**
- 12. Extensions of GCD**
- 13. A Real-World Application**

-
1. What This Book Is About
 2. The First Algorithm
 3. Ancient Greek Number Theory
 4. Euclid's Algorithm
 5. **The Emergence of Modern Number Theory**
 6. Abstraction in Mathematics
 7. **Deriving a Generic Algorithm**
 8. More Algebraic Structures
 9. **Organizing Mathematical Knowledge**
 10. Fundamental Programming Concepts
 11. Permutation Algorithms
 12. Extensions of GCD
 13. **A Real-World Application**

-
1. What This Book Is About
 2. The First Algorithm
 3. Ancient Greek Number Theory
 4. Euclid's Algorithm
 5. The Emergence of Modern Number Theory
 6. Abstraction in Mathematics
 7. Deriving a Generic Algorithm
 8. More Algebraic Structures
 9. Organizing Mathematical Knowledge
 10. Fundamental Programming Concepts
 11. Permutation Algorithms
 12. Extensions of GCD
 13. A Real-World Application

4	Euclid's Algorithm	41	
4.1	Athens and Alexandria	41	
4.2	Euclid's Greatest Common Measure Algorithm		45
4.3	A Millennium without Mathematics	50	
4.4	The Strange History of Zero	51	
4.5	Remainder and Quotient Algorithms	53	
4.6	Sharing the Code	57	
4.7	Validating the Algorithm	59	
4.8	Thoughts on the Chapter	61	

textbook

discussion



Meetup