



Neurons:A Mathematical Ignition (Series on Number Theory and Its Applications)

Masayoshi Hata

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This unique volume presents a fruitful and beautiful mathematical world hidden in Caianiello's neuron equations, which describe the instantaneous behavior of a model of a brain or thinking machine. The detailed analysis from a viewpoint of “dynamical systems”, even in a single neuron case, enables us to obtain amazingly good rational approximations to the Hecke–Mahler series with two variables. Some interesting numerical applications of our rational approximations are also discussed.

This book is fundamentally self-contained and many topics required in it are explained from the beginning. Each chapter contains a number of instructive and mostly original exercises at various levels.

Contents:

- Basics of Discrete Dynamical Systems
- Caianiello's Equations
- Rotation Numbers
- Classification of \mathbf{B}
- Farey Series
- Further Investigation of $f \in \mathbf{B}_\infty$
- Limit Sets Ω_f and $\omega_f(\chi)$
- Piecewise Linear Maps
- Orbital and Itinerary Functions
- Farey Structure
- α - and β -Leaves
- Approximations to Hecke–Mahler Series

Readership: Graduates and researchers interested in dynamical systems, Farey series, Hecke–Mahler series, Diophantine approximation (irrationality measures, transcendental numbers).

Key Features:

- A new method to obtain “good” rational approximations to functions with two variables is provided
- A number of mostly original exercises is contained in almost all chapters, together with their detailed solutions in the “Hints and Solutions” section
- Basic and useful mathematical notions in “discrete dynamical systems”, “elementary number theory” and in “rational approximation theory” are explained carefully

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