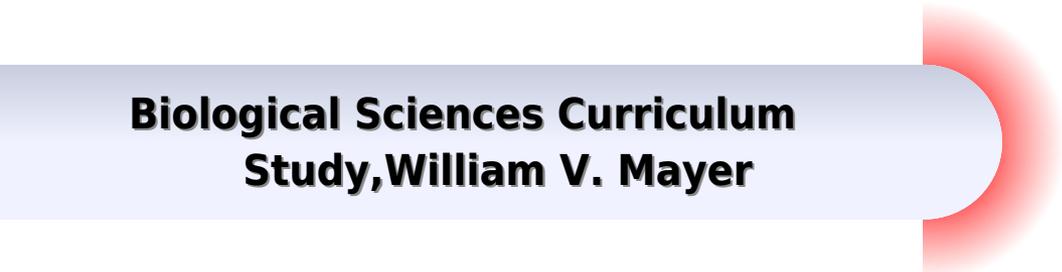


Model	Features	Main Result	Drawbacks
<b>Meiklejohn-Bean Model<sup>a</sup></b>	Coherent F and AF magnetization rotation	$H_E$ much larger than observed experimentally	Results were contradicted
<b>Néel Model<sup>b</sup></b>	Continuum approximation	Domain wall in the AF, requires large width of the F slab	approximation requires minimum width of the slabs to be valid
<b>Malozemoff's Random Field Model<sup>c</sup></b>	Random defects create random fields	Reasonable $H_E$ values which depend on defect concentration	Not consistent with experiments
<b>Mauri's Model<sup>d</sup></b>	F interface coupling; thin F film	Reasonable $H_E$ values	Anisotropy constant needs to be small,
<b>Orthogonal F and AF magnetization Model<sup>e</sup></b>	Canting of the AF Interface spins	Realistic interface Magnetic structure	failed to yield unidirectional anisotropy
<b>Generalized random Interface models<sup>f</sup></b>	Rough interface; Dipolar interaction is included	finite coercivity, dependent on interface defect	entirely depends on assumption of a rough interface

<sup>a</sup>[15], <sup>b</sup>[13], <sup>c</sup>[55], <sup>d</sup>[16], <sup>e</sup>[56], <sup>f</sup>[57,58]

# Theoretical Models In Biology

**Biological Sciences Curriculum  
Study, William V. Mayer**



## **Theoretical Models In Biology:**

*Game-Theoretical Models in Biology* Mark Broom, Jan Rychtář, 2022-08-03 Covering the major topics of evolutionary game theory *Game Theoretical Models in Biology* Second Edition presents both abstract and practical mathematical models of real biological situations It discusses the static aspects of game theory in a mathematically rigorous way that is appealing to mathematicians In addition the authors explore many applications of game theory to biology making the text useful to biologists as well The book describes a wide range of topics in evolutionary games including matrix games replicator dynamics the hawk dove game and the prisoner s dilemma It covers the evolutionarily stable strategy a key concept in biological games and offers in depth details of the mathematical models Most chapters illustrate how to use Python to solve various games Important biological phenomena such as the sex ratio of so many species being close to a half the evolution of cooperative behaviour and the existence of adornments for example the peacock s tail have been explained using ideas underpinned by game theoretical modelling Suitable for readers studying and working at the interface of mathematics and the life sciences this book shows how evolutionary game theory is used in the modelling of these diverse biological phenomena In this thoroughly revised new edition the authors have added three new chapters on the evolution of structured populations biological signalling games and a topical new chapter on evolutionary models of cancer There are also new sections on games with time constraints that convert simple games to potentially complex nonlinear ones new models on extortion strategies for the Iterated Prisoner s Dilemma and on social dilemmas and on evolutionary models of vaccination a timely section given the current Covid pandemic Features Presents a wide range of biological applications of game theory Suitable for researchers and professionals in mathematical biology and the life sciences and as a text for postgraduate courses in mathematical biology Provides numerous examples exercises and Python code

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models of complicated living systems should have this in his or her library G B Ermentrout Bulletin of Mathematical Biology

**Theoretical Models in Biology** Glenn W. Rowe, 1994 This book surveys theoretical models in three broad areas of biology the origin of life the immune system and memory in the brain introducing mathematical and mainly computational methods that have been used to construct simulations Most current books on theoretical biology fall into one of two categories a books that specialize in one area of biology and treat theoretical models in considerable depth and b books that concentrate on purely mathematical models with computers used only to find numerical solutions to differential equations for example Although some mathematical models are considered in this book the main emphasis is on stochastic computer models of biological systems Such techniques have a much greater potential for producing detailed realistic models of individual systems and are likely to be the preferred modelling methods of the future By considering three different areas in biology the book shows how several of these modelling techniques have been successfully applied in diverse areas Put simply this book is important because it shows how the power of modern computers is allowing researchers in theoretical biology to break free of the constraints modelling that were imposed by the traditional differential equation approach

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**Theoretical Systems in Biology** Gilbert Chauvet, 1996

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