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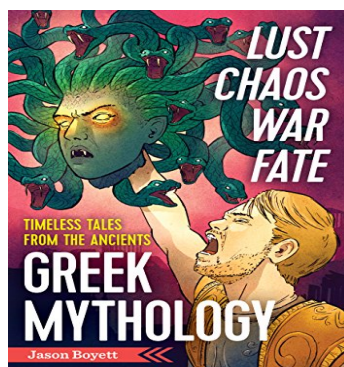
The first comprehensive synthesis on development and evolution: it applies to all aspects of development, at all levels of organization and in all organisms, taking advantage of modern findings on behavior, genetics, endocrinology, molecular biology, evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change. This book solves key problems that have impeded a definitive synthesis in the past. It uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change. In this book development includes not only embryology a

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My Bestfriend's Man (Volume 1)

At the age of twenty-five, Savannah seems to have it all. She's a beautiful independent woman with a great career and a good man by her side. Brian, the new man in her life, is every woman's dream. He's fine, established, and paid. There is just one problem . . . Savannah isn't

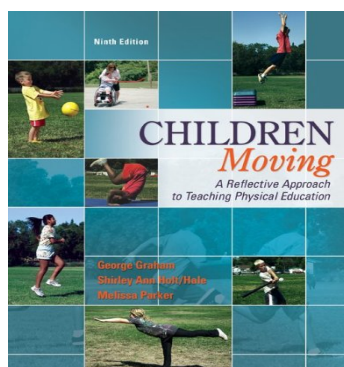


Atomic Accidents: A History of Nuclear Meltdowns and Disasters: From the Ozark Mountains to Fukushima

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Sacco and Vanzetti: The Men, the Murders, and the Judgment of Mankind

In this groundbreaking narrative of one of America's most divisive trials and executions, award-winning journalist Bruce Watson mines deep archives and newly available sources to paint the most complete portrait available of the "good shoemaker" and the "poor fish peddler." Opening with an explosio



Children Moving: A Reflective Approach to Teaching Physical Education

Soundly based in the research literature and theory, this comprehensive introductory text is a practical guide to teaching physical education to the elementary school child. Its skill theme approach guides teachers in the process of assisting children develop their motor skills and physical fitness

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What others say about this ebook:

Review 1:

Very detailed, well-explained scenarios to change your view on how evolution works

Review 2:

A fantastic scholarship. A must read for anyone tired with the evolutionary synthesis platitude that places the gene in the driver's seat of evolution and development; like novel structures and functions are invented by mutations, ahead of a need for them, or that development is pre-programmed by our genes. West-Eberhard, instead, places the phenotype and organismic activity in that seat. Read the book and see for yourself why the active organism and its development deserve that seat. A long and demanding read, to be sure, but worth all the hours you will spend reading it (almost 700 pages)

Review 3:

If you never fully accepted the "simple" gene-based model (the Modern Synthesis) of Natural Selection, this is the book for you!

Review 4:

This text is amazing. It takes a comparative approach in providing countless examples of developmental plasticity and its importance in the scope of evolutionary theory. It's truly a synthesis and the prime source for the long-awaited integration of development with evolution.

Review 5:

West-Eberhard has produced a 794 page tome that chokes the brain and deadens the senses. On the reverse cover, it asks a question about the picture on the cover, and refers to a chapter for the answer. As far as I can see, the question is never addressed.

This reveals two of the books problems. First, its grandiose aspirations, to be a new 'Modern Synthesis,' and to bring developmental biology into the fold, are never backed with a strength of data and arguments that equal her claims. Secondly, the book is a morass of arguments, constantly pointing to other parts of the book. I started drawing little circle around each time we were referred to another chapter, but I quickly stopped as my pages became tangled messes of circles.

The writing is murky at best, and the reader learns to treasure moments of lucidity, as they are long in coming. The structure often seems backwards, confusing, and generally awkward. This tome is in dire need of a biologically educated editor. Her tone is often confrontational and bullying towards other authors.

Technically speaking, her ideas within are vague, and while she lays out a clear path for phenotypic plasticity leading evolution, the reader quickly realizes her definitions of concepts like 'Phenotype' are so nebulous and removed from what any other average biologist uses that to argue against is to try and staple Jell-O to your roof. At times, she attempts to have things in two different ways - arguing phylogenetic inertia isn't a relevant or especially frequent, but also wanting traits to remain perfect and unexpressed for absurd periods of time.

The mathematical treatment of the subject in this book is non-existent. This is almost unforgivable, in a topic that clearly needs a mathematical treatment to establish its true importance in any given system beyond the examples given. Its testable predictions are rare in

coming, often muddled in content, and frequently overlap with predictions made by alternate competing hypothesis. Those looking for a research programme had best look elsewhere. It definitely has not, and will not, sway any sceptics.

Its sole, redeeming quality is that it aggressively challenges the readers pre-existing notions of evolution, and forces the reader to reconsider long-held notions. But for those of us with limited time, a more succinct volume could accomplish the same introspection.

Developmental Plasticity and Evolution: Mary Jane West-Eberhard ...

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Developmental plasticity and the origin of species differences

May 3, 2005 ... Insofar as phenotypic novelties arise from adaptive developmental plasticity, they are not "random" variants, because their initial form reflects adaptive responses with an evolutionary history, even though they are initiated by mutations or novel environmental factors that are random with respect to (future) ...

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The role of developmental plasticity in evolutionary innovation

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Developmental plasticity and evolutionary biology. - NCBI

J Nutr. 2007 Apr;137(4):1060-2. Developmental plasticity and evolutionary biology. Bateson P(1). Author information: (1)Sub-Department of Animal Behaviour, University of Cambridge, Madingley, Cambridge, CB3 8AA, UK. ppgb @ Fetal experience determines some of the characteristics of human adults.

The role of developmental plasticity in evolutionary innovation (PDF ...

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