



The First Gene: The Birth of Programming, Messaging and Formal Control.

By David L Abel

Longview Press -- Academic. Paperback. Book Condition: New. Paperback. 408 pages. Dimensions: 9.6in. x 7.3in. x 0.9in. The First Gene: The Birth of Programming, Messaging and Formal Control is a peer-reviewed anthology of papers that focuses, for the first time, entirely on the following difficult scientific questions: How did physics and chemistry write the first genetic instructions How could a prebiotic (pre-life, inanimate) environment consisting of nothing but chance and necessity have programmed logic gates, decision nodes, configurable-switch settings, and prescriptive information using a symbolic system of codons (three nucleotides per unitblock of code) The codon table is formal, not physical. It has also been shown to be conceptually ideal. How did primordial nature know how to write in redundancy codes that maximally protect information How did mere physics encode and decode linear digital instructions that are not determined by physical interactions All known life is networked and cybernetic. Cybernetics is the study of various means of steering, organizing and controlling objects and events toward producing utility. The constraints of initial conditions and the physical laws themselves are blind and indifferent to functional success. Only controls, not constraints, steer events toward the goal of usefulness (e. g. , becoming alive or...



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