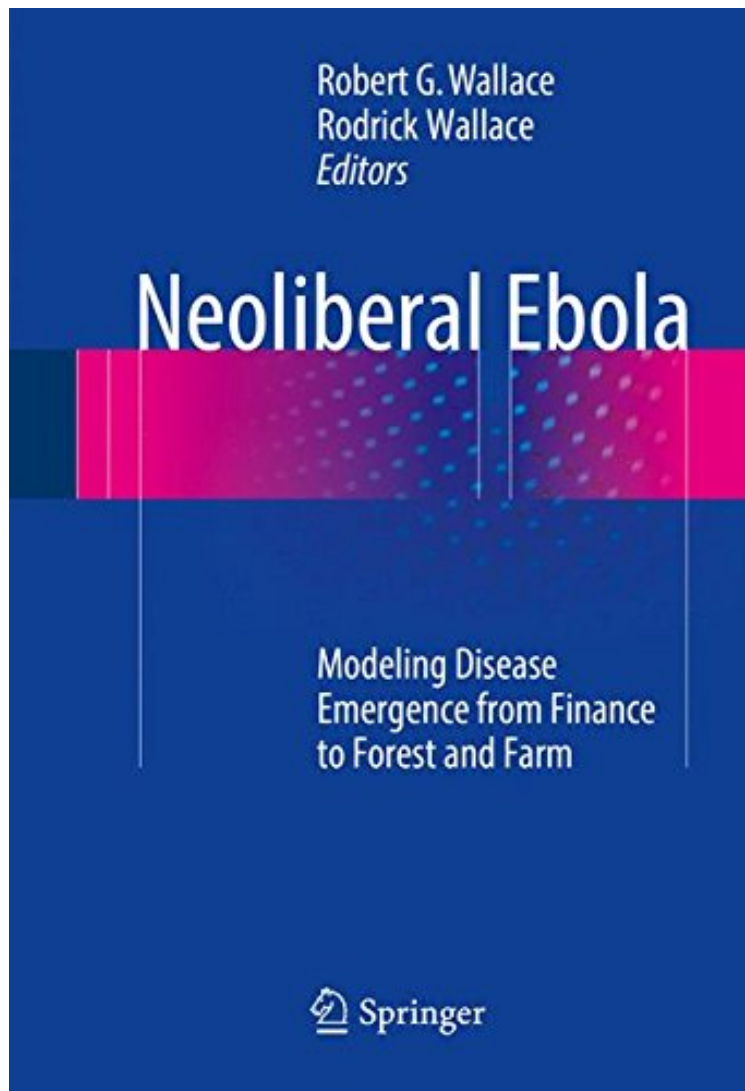


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Neoliberal Ebola: Modeling Disease Emergence from Finance to Forest and Farm

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This volume compiles five papers modeling the effects of neoliberal economics on the emergence of Ebola and its aftermath. Neoliberalism is currently the world's primary economic philosophy. It centers international relations around globalizing laissez-faire economics for multinational companies, promoting free trade, deregulating economic markets, and shifting state expenditures in favor of private property. The multidisciplinary teams represented here place both Ebola Makona, the Zaire Ebola virus variant that has infected 28,000 in West Africa, and Ebola Reston, which is currently emerging in industrial hog farms in the Philippines and China, within a multi-plank modeling framework. Using a stochastic extinction model that one group spatializes, environmental stochasticity across the ecologies in which Ebola evolves is treated as an ecosystemic prophylaxis. An agroecological logic gate is developed for epidemic control. A Black-Scholes model explicitly links economic margins across agricultural systems to success in biocontrol. This new control theory is further developed around the data-rate and rate-distortion theorems, a turbulence model, and cognitive symmetry breaking. Lastly, a model of pandemic penetrance is used to explore the domino effects of serious outbreaks amplifying through the cascades of disasters that can follow deadly pandemics. All the models presented are contextualized by socioeconomic geographies specific to outbreak locales.

From the Back Cover This book compiles five papers modeling the effects of neoliberal economics on the emergence of Ebola and its aftermath. The multidisciplinary teams represented here place both Ebola Makona, the Zaire Ebola virus variant that has infected 28,000 in West Africa, and Ebola Reston, which is currently emerging in industrial hog farms in the Philippines and China, within a multi-plank modeling framework. This volume proposes an alternate science of disease and an adjunct program of interventions useful to researchers and public health officials alike.