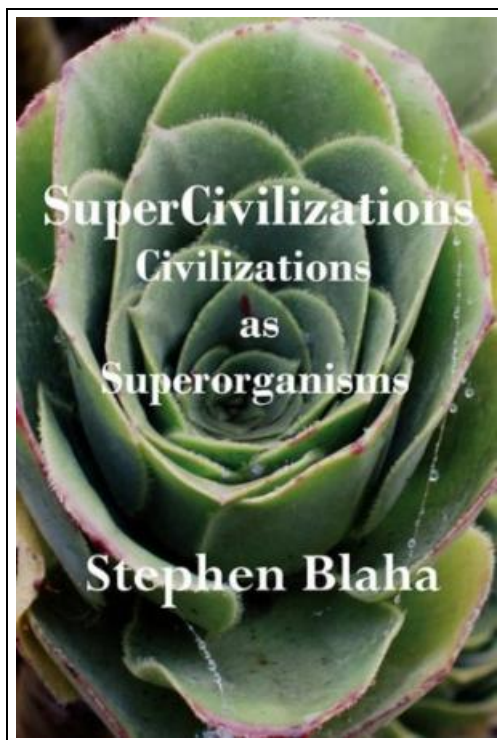


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SUPERCIVILIZATIONS: CIVILIZATIONS AS SUPERORGANISMS



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McMann-Fisher Publishers. Hardcover. Book Condition: New. Hardcover. 294 pages. Dimensions: 10.1in. x 6.9in. x 0.4in. This book develops a new energeticthermodynamic basis for the cyclic nature of civilizations. The growth of a civilization is due to the ability of the civilization to acquire and utilize resources for growth. The theory developed turns out to be identical to Blahas previously developed theory, which successfully matches the history of 50 civilizations. The energeticthermodynamic theory appears in studies of superorganisms such as ant and bee colonies as well as other organisms including colonies of microbes. It also appears in theories of predator-prey populations such as wolves and rabbits. The consideration of superorganisms, predator-prey population cyclicity, and human civilization cyclicity suggests that there is an underlying unity in Nature in the growth of large groups of organisms and leads to the conclusion that civilizations are superorganisms. Thus this new model of civilizations is called SuperCivilizations. The book begins by overviewing superorganisms including some exciting new evidence for microbial superorganisms on land and in the deep sea. Subsequently we discuss almost all of the known human civilizations within the framework of this theory. We also consider the Richardson theory of arms races and show that Richardsons equations are identical to those of our energeticthermodynamic model of civilization dynamics. With a suitable choice of parameters the arms race theory has cyclic solutions (as well as the exponential solutions studied by Richardson) that describe the dynamics of armaments growth in the United States - Russia confrontations from 1981 - 2010. The book also describes a program for the exploration and the colonization of the Solar System and a new means of travel to the stars and galaxies with a view towards the development of a space civilization. The probable effects on contemporary human civilizations of meeting an alien...



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