	DEACON AND CASHMAN		JUARRERO AND RUBINO	
p193	World views -- great chain of being, Creation	p1	Ladder or ramp -- Separate individual acts of Creation?	p 1
	Effect can have no more perfection than cause		Nothing new under the sun -- only superficial change	
	Physical change is only rearrangement		Novel properties… are mere appearances	
			Change is illusory -- Heraclitus	
p194	Emergence is denial of eliminativism & pansychism	p2	Emergence is denial of preformationism	
	All causality is efficient cause		Discontinuities are explained by divine intervention	
	Fundamental attributes cannot appear	p3	There cannot be more in the cause than in the effect	
			Change is only possible in non-essential matters	
			Substantive emergents [cannot] pop into existence	
	EMERGENCE		**EMERGENCE**	
p195	J.S. Mill emergent properties in chemistry "no mere summing"	p4	Emergence first used re New properties in Chemistry -- "not the mere sum"	
	George Henry Lewes coined the term emergence		George Henry Lewes first proposed the term emergence	
p196	George Henry Lewes cited on "compositional" properties		George Henry Lewes on chemical compounds	
	Followed by the British Emergentists		Followed by the British Emergentists	
p196ff	Pepper, Sperry, Putnam, Kim, Humphreys,		Anthology selects authors only prior to 1960	
p197	Parts/wholes mentioned in role for Kim & Humphreys*	pp4-5	PARTS/WHOLE ISSUE INVOLVED IN QUESTION OF EMERGENCE	
p198	Focus on dynamics becomes important re problem of emergence			
p198ff	Ilya Prigogine … ffe thermodynamics	p.6	Ilya Prigogine's theories	
p199	Complex Dynamical systems theory more accepted today		Complex dynamical systems theory (Complexity(more accepted today	
	Reasons to doubt nonlinear complexity alone accounts for…	p.6	Complexity theory can account for…	
	Deacon argues whole not greater than sum of its parts…		Implication is that Juarrero & Rubino do believe whole has properties parts do not	
	Constitutive absences will explain emergent attributes			
p200	Second law is not a necessary law -- ubiquitous tendency		"Future is no longer implied in the present" (see first page Deacon/Cashman)	
	From constraint to self-organization to organism			
p201	**KANT**	p.10	**KANT**	
	Organism vs machines		Organized beings versus machines	
	Solely motive power		Solely motive power	
	Formative power		Formative power	
	Reciprocal cause and effect		Reciprocity	
202	Intrinsic generation of constraints		THIS BOOK IS AN ANTHOLOGY WITHOUT COMMENTARY ON SUBSTANCE OF ARTICLES	
	CD BROAD		**CD BROAD**	
p196	CD BROAD -- novel properties that emerged via compositionality	p15		
	could exhibit discontinuous causal laws than those characterized		interpretation of Broad	
	by comonents in isolation.			
	INTRINSIC GENERATION OF CONSTRAINTS		**FROM JUARRERO IN AGUILAR ET AL ANTHOLOGY**	
p202-203	Constraint-generation process and normativity		In Section on Top-Down Constraints as Semiotic, Juarrero states they introduce an element	
			of "normativity"	
p202	Constraints as intrinsically generated		Last paragraph in section entitled NonLinear Dynamical Theory, Juarrero refers to constraints	
			in chemical processes as self produced as a result of endogenous dynamics	
p202	Interpretation processes		Entire Section on Top-Down constraints as semiotics	
	Representation in "self-organized attractors in neural circuits"		Self-organized state as "representational -- in section called Mind as a Complex Attractor	
	EMERGENCE EX NIHILO			
pp203-204	Emergence as the result of the hierarchy of constraints		Context-sensitive constraints are generative, creating hierarchies of emergent systems	
			on top of systems	