

**Qualitative Modeling Of Complex Systems: An  
Introduction To Loop Analysis And Time Averaging By  
Charles J. Puccia**

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Aug 1, 2007 A feedback loop analysis of the aeolian Introduction ment by wind presents a rich mixture of complex systems doi:10.1016/j.geomorph.2007.04.012 . Aeolian saltation models traditionally relate transport . Time-trace of transport response to shear velocity at a resolution of 5 Hz, though based on

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Graduation date: 2001 This work sets forth a reformulation of Levins' loop analysis for the qualitative modeling of complex dynamical systems.

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### **10.1371/journal.pcbi.1004192 - journals | plos**

Max Planck Institute for Dynamics of Complex Technical Systems, Magdeburg, Many of them are based on qualitative modeling formalisms [29

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Hunters (1926) at age 8 (in 1938) and his first of Charles Darwin's books at age 12 (in 1932). . Puccia, C.J. and Levins, R. Qualitative Modeling of Complex Systems: An Introduction to Loop Analysis and Time Averaging, Harvard in a complex ecological community" in: Carroll R.C., Vandermeer J. and Rosset P., eds.,

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