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Dear Prof.Joshi,

Dr.Preston Devasia (Indian Institute of Science, Bangalore) has kindly advised me to address you as an expert on modelling of Ecological Systems.

The problem I am working upon, is the structure and development of Living Matter. For aims of experimental investigations and theoretical ecology I have developed a simple model of Living Matter taken as a whole (IMES; the figure enclosed), resembling a Living Vortex. Modern investigations of aquatic communities (microbial loop, picoplankton prime production and respiration, microlitrosphere concept, energy cycling, etc.) give support to such a model as compared with more traditional ones of 1930-1990.

As far as I know, IMES resembles much more traditional models used for many centuries in philosophy and cosmology of the Middle East and India.

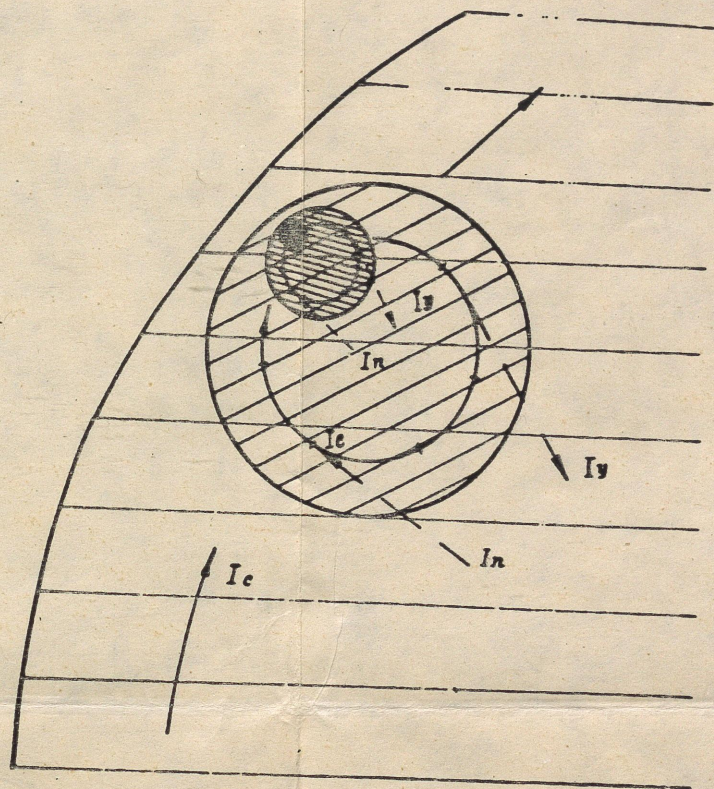
I would highly appreciate any information on the names and structure of such models (concepts, if there exist any) and relevant data (references, investigators, history etc.).

Thank you in advance.

Sincerely yours,


Yury G.Kamenir

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The model (Ideal Minimum Ecosystem - IMES) is a closed volume (buffer) where steady state (shading) is maintained of parameters important for stability of the closed flux (I^c) of renewal (i.e. change of generations - cyclic process - birth-development-death-resource_regeneration-development_of_new) Through-Flowing-Elements (FELs). I^c is immersed into stable medium of next level FEL's buffer. Principal peculiarities of IMES are: hierarchical structure, cyclic fluxes and processes which are implemented through huge numbers of FELs, stores and nonlinear characteristics giving bufferness of medium and equilibrium of parameters.