

биогеоценологических процессов. (Russian)

[Mathematical modeling of biogeocoenotic processes]

Edited by Yu. M. Svirezhev.

"Nauka", Moscow, 1985. 126 pp. 1.40 r.

The ten papers in this collection, all in Russian, include the following: D. O. Logofet and Yu. M. Svirezhev, Modeling of the dynamics of biological populations and communities under conditions of a conservation regime (pp. 25-37, 123); A. N. Chetverikov, Modeling of forest biogeocoenoses (pp. 37-51, 123); T. È.-A. Freï, Some aspects of modeling of the productivity of timber tracts (pp. 51-58, 123-124); V. V. Galitskiï, Horizontal structure and dynamics of a single-age plant community. Numerical modeling (pp. 59-70, 124).

{The papers of mathematical interest are being reviewed individually.}

Arlinghaus, Sandra Lach (1-MI)

86m:92047

Eye-contact graphs.

Behavioral Sci. **30** (1985), no. 2, 108-117.

There are 81 labelled subdigraphs of the complete symmetric bipartite digraph having two vertices in each partition such that each vertex has outdegree at most one. The author utilizes these (actually only a few more than two dozen of them after imposing an equivalence relation) as a model of possible levels of communication via eye contact between two individuals. The indegrees and outdegrees of vertices are suggested as measures of the extent of eye-contact communication, and a discussion is given on how shifting eyes (i.e. moving from one digraph in the collection to another) affects this measure. K. B. Reid (Baton Rouge, La.)

December
1986.
Mathematical
Reviews

92-sociology

A-20
20

05C50

Graphs +
Matrices.

→ Prof. Math.
LSU.