

THE LIFE CYCLE OF ECONOMIC DEVELOPMENT

by Nathan B. Forrester

Describes a system dynamics model of national economic development for an industrial economy. It interrelates the five production sectors of a national economy to examine the shifting allocation of labor and capital between these sectors as development progresses. The model deals with a 250-year period of economic development and focuses on changes during the 100 year transition phase between growth and equilibrium.

1973, second edition, 194 pp., ill., \$20.00

STUDY NOTES IN SYSTEM DYNAMICS

by Michael R. Goodman

Collects supplementary material for teaching or self-study in system dynamics. It focuses on simple structures and describes elements of positive, negative, and combined positive and negative feedback loops. A large number of practice exercises with accompanying solutions are included.

1974, approx. 320 pp., ill., \$15.00

READINGS IN URBAN DYNAMICS: VOLUME 1

edited by Nathaniel J. Mass

Explores and extends concepts introduced by Jay W. Forrester's *URBAN DYNAMICS*. This collection of papers addresses many of the basic issues raised by reviewers of *URBAN DYNAMICS* and discusses applications of system dynamics to urban policy design.

1974, 303 pp., ill., \$25.00

DYNAMICS OF COMMODITY PRODUCTION CYCLES

by Dennis L. Meadows

Develops a general model of the economic, biological, technological, and psychological factors which lead to instability in commodity systems. With appropriate parameter values, the model explains the hog, cattle and chicken cycles observed in the real world.

1970, 104 pp., ill., \$14.75

TOWARD GLOBAL EQUILIBRIUM: COLLECTED PAPERS

edited by Dennis L. Meadows and Donella H. Meadows

Contains 13 papers which describe individual research on dynamic issues evolving from the Club of Rome project. It presents detailed analyses of several important global problems, e.g. DDT and mercury pollution, natural resource depletion, solid waste disposal, etc., and provides policy suggestions which may alleviate these problems. It also examines the economic, political, and ethical implications of growth and the transition to equilibrium.

1973, 358 pp., ill., \$18.00

READINGS IN URBAN DYNAMICS: VOLUME 2

edited by Schroeder, Alfeld, and Sweeney

Addresses both practical and methodological issues in the field of urban dynamics modeling. The book describes model extensions that permit explicit analysis of land rezoning decisions and the problem of housing abandonment. Includes a full technical report on the application of urban dynamics modeling to Lowell, Massachusetts.

Forthcoming 1975, approx. 400 pp., ill., approx. \$25.00

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