For a scan of this review see the web version.

MSC:

92D25   Population dynamics (general)

Cited in **33** Documents

Keywords:

deterministic models; infectious diseases; oscillation phenomena; periodically varying contact rate; fixed period; time delays

Full Text: DOI

References:

[1]   {\scAnderson, M., and May, R. M.} Population biology of infectious diseases, preprint.

[2]   Bailey, N.T.J., The mathematical theory of infectious diseases, (1975), Griffin London · Zbl 0115.37202

[3]   Bartlett, M.S., Measles periodicity and community size, J. roy. statist. soc. ser. A, 120, 48-70, (1957)

[4]   Bartlett, M.S., The critical community size for measles in the united states, J. roy. statis. soc. ser. A, 123, 37-44, (1960)

[5]   Bellman, R.; Cooke, K.L., Differential difference equations, (1963), Academic Press New York · Zbl 0118.08201

[6]   Bliss, C.I.; Blevins, D.L., The analysis of seasonal variation in measles, Amer. J. hygiene, 70, 328-334, (1959)

[7]   Bussenberg, S.; Cooke, K.L., The effect of integral conditions in certain equations modelling epidemics and population growth, (1978), Pomona College Claremont, Calif, Preprint

[8]   Cohen, D.S., (), 1973

[9]   Cooke, K.L., A discrete-time model with classes of infectives and susceptibles, Theoret. pop. biol, 7, 175, (1975) · Zbl 0295.92016

[10] Cooke, K.L., Stability analysis for a vector disease model, (1977), Dept. of Math., Pomona College Claremont, Calif, Preprint

[11] Cooke, K.L.; Kaplan, J.L., A periodicity threshold theorem for epidemics and population growth, J. math. biosci, 31, 87-104, (1976) · Zbl 0341.92012

[12] Curry, J.H., An algorithm for finding close orbits, () · Zbl 0449.58017

[13] Dietz, K., The incidence of infectious diseases under the influence of seasonal fluctuations, Lecture notes biomath, 11, 1-15, (1976) · Zbl 0333.92014

[14] Dietz, K., Transmission and control of arbovirus diseases, () · Zbl 0322.92023

[15] Emerson, H., Measles and whooping cough, Amer. J. public health (suppl.), 27, 1-153, (1937)

[16] Grossman, Z.; Gumowski, I.; Dietz, K., The incidence of infectious diseases under the influence of seasonal fluctuations—analytic approach, (), 525-546

[17] Gumowski, I.; Mira, C.; Thibault, R., The incidence of infectious diseases under the influence of seasonal fluctuations—periodic modes, ()

[18] Hayes, N.D., Roots of the transcendental equation associated with a certain difference differential equation, J. London math. soc, 25, 226-232, (1950) · Zbl 0038.24102

[19] Hethcote, H.W., Asymptotic behavior and stability in epidemic models, Lecture notes biomath, 2, 83-92, (1974)

[20] Hethcote, H.W.; Tudor, D.W., Integral equations describing endemic infectious diseases, (1979), preprint

[21] London, W.P.; Yorke, J.A., Recurrent outbreaks of measles, chickenpox and mumps. I. seasonal variation in contact rates, Amer. J. epidemiol, 98, 453-468, (1973)

[22] Malkin, I.G., Theory of stability of motion, (1952), U.S. Atomic Energy Commission Oak Ridge, Tenn · Zbl 0048.32801

[23] Salinger, M.; Nicolis, G., Sustained oscillations and threshold phenomena in an operon control circuit, Biophys. chem, 4, 113-121, (1976)

[24] Smith, H.L., On periodic solutions of a delay integral equation modelling epidemics, J. math. biol, 4, 69-80, (1977) · Zbl 0354.92035

[25] Soper, H.E., The interpretation of periodicity in diseases prevalence, J. roy statist. soc, 92, 34-73, (1929) · Zbl 55.0941.13

[26] Yorke, J.A.; London, W.P., Recurrent outbreaks of measles, chickenpox and mumps. II. systematic differences in contact rates

and stochastic effects, Amer. J. epidemiol, 98, 469-482, (1973)

[27] Yorke, J.A.; Nathanson, N.; Pianigiani, G.; Martin, J., Seasonality and the requirements for perpetuation and eradication of viruses in populations, (1978), preprint

[28] Zeigler, B.P., Persistence and patchiness of predator-prey systems induced by discrete event population exchange mechanisms, J. theoret. biol, 67, 687-713, (1977)