

Package: epimdr2 (via r-universe)

October 16, 2024

Title Functions and Data for ``Epidemics: Models and Data in R (2nd Edition)''

Version 1.0-7

Date 2022-08-27

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Description Functions, data sets and shiny apps for ``Epidemics: Models and Data in R (2nd edition)'' by Ottar N. Bjornstad (ISBN: 978-3-031-12055-8) <<https://link.springer.com/book/9783031120558>>. The package contains functions to study the S(E)IR model, spatial and age-structured SIR models; time-series SIR and chain-binomial stochastic models; catalytic disease models; coupled map lattice models of spatial transmission and network models for social spread of infection. The package is also an advanced quantitative companion to the Coursera Epidemics Massive Online Open Course <<https://www.coursera.org/learn/epidemics>>.

Depends R (>= 4.0.0), shiny, deSolve, plotly

Imports polyspline, phaseR, ggplot2

Suggests ade4, bbmle, fields, forecast, imputeTS, lme4, ncf, nleqslv, nlme, nlts, plotrix, pomp, rootSolve, Rwave, rworldmap, statnet, scatterplot3d

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URL <<https://github.com/objornstad/epimdr2>>, <<https://link.springer.com/book/9783031120558>>, <<https://ento.psu.edu/directory/onb1>>

Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

NeedsCompilation no

Repository <https://objornstad.r-universe.dev>

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RemoteUrl <https://github.com/objornstad/epimdr2>

RemoteRef HEAD

RemoteSha c359ca015f5c0aeadcdbf7da8cbe74cdf038e73d