Package ‘quadmatrix’

October 13, 2022

Type Package
Title Solving Quadratic Matrix Equations
Version 0.1.0
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Description Given inputs A, B and C, this package solves the matrix equation \( A*X^2 - B*X - C = 0 \).
License GPL-2
Encoding UTF-8
LazyData FALSE
Imports matrixcalc, geigen
Suggests knitr
RoxygenNote 6.1.0
NeedsCompilation no
Repository CRAN
Date/Publication 2018-08-13 14:40:03 UTC

R topics documented:

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quadmatrix Solving Quadratic Matrix Equations

Description

Given inputs A, B and C, this package solves the matrix equation \( A*X^2 - B*X - C = 0 \).
quadmatrix

Usage
quadmatrix(A, B, C)

Arguments
A  A Matrix
B  A Matrix
C  A Matrix

Value
Matrix X

Examples
B = matrix(c(1,3,3,1), nrow = 2, ncol = 2)
A = matrix(c(1.5,2,2,1.5), nrow = 2, ncol = 2)
C = matrix(c(1.5,1,1,1.5), nrow = 2, ncol = 2)
quadmatrix(A,B,C)
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