Package ‘quadmatrix’

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Type Package

Title Solving Quadratic Matrix Equations

Version 0.1.0

Author Kasa

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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

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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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