

Package ‘quadmatrix’

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Type Package

Title Solving Quadratic Matrix Equations

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Author Kasa

Maintainer Siva Rajesh Kasa <sivarajesh.kasa@gmail.com>

Description Given inputs A,B and C, this package solves the matrix equation $A*X^2 - B*X - C = 0$.

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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 $A*X^2 - B*X - C = 0$.

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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