

Package: quadmatrix (via r-universe)

September 16, 2024

Type Package

Title Solving Quadratic Matrix Equations

Version 0.1.0

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

Date/Publication 2018-08-13 14:40:03 UTC

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

RemoteUrl <https://github.com/cran/quadmatrix>

RemoteRef HEAD

RemoteSha 8e7aec43e3cb95a6b4d81d60194aedd45ee532e8

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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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