

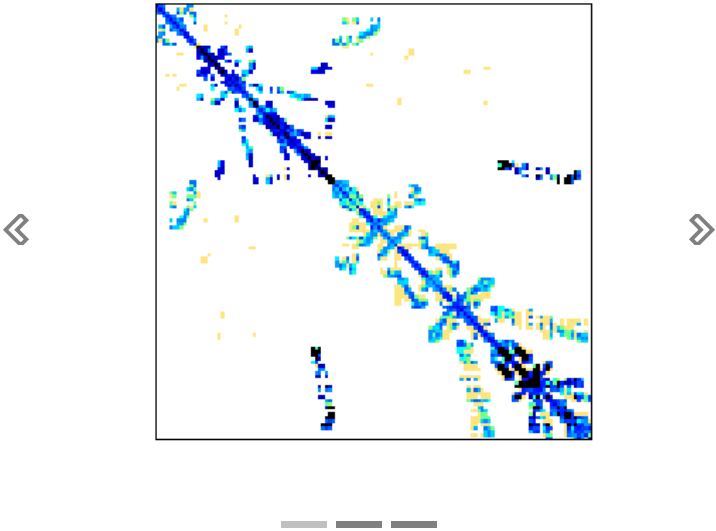
HB/bcsstk13


SYMMETRIC STIFFNESS MATRIX, FLUID FLOW GENERALIZED EIGENVALUES

|                 |                                      |
|-----------------|--------------------------------------|
| Name            | bcsstk13                             |
| Group           | <a href="#">HB</a>                   |
| Matrix ID       | 35                                   |
| Num Rows        | 2,003                                |
| Num Cols        | 2,003                                |
| Nonzeros        | 83,883                               |
| Pattern Entries | 83,883                               |
| Kind            | Computational Fluid Dynamics Problem |
| Symmetric       | Yes                                  |
| Date            | 1982                                 |
| Author          | J. Lewis                             |

Editor

I. Duff, R. Grimes, J. Lewis



|   |       |                          |  |
|---|-------|--------------------------|--|
| Structural Rank                               | 2,003 | SVD Statistics           |  |
| Structural Rank Full                          | true  | Matrix Norm              | 3.114812e+12   |
| Num Dmperm Blocks <a href="#">?</a>           | 1     | Minimum Singular Value   | 2.843328e+02   |
| Strongly Connect Components <a href="#">?</a> | 1     | Condition Number         | 1.095481e+10   |
| Num Explicit Zeros <a href="#">?</a>          | 0     | Rank                     | 2,003  |
| Pattern Symmetry <a href="#">?</a>            | 100%  | sprank(A)-rank(A)        | 0  |
| Numeric Symmetry <a href="#">?</a>            | 100%  | Null Space Dimension     | 0  |
| Cholesky Candidate <a href="#">?</a>          | yes   | Full Numerical Rank?     | yes  |
| Positive Definite <a href="#">?</a>           | yes   | Download Singular Values | <a href="#">MATLAB </a> |
| Type <a href="#">?</a>                        | real  |                          |  |

## Notes