

# MA3227 Numerical Analysis II

## References

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# References

## **Access to books**

We often have free access to digital copies of the books listed below via the library bookmarklet.

Installation of the bookmarklet is described at

<https://libguides.nus.edu.sg/findfulltext/proxybookmark>.

Once installed, proceed as follows:

- ▶ Click on the doi links provided below. This will open the book website in your browser.
- ▶ Click on the library bookmarklet and log in using your university credentials when prompted.
- ▶ The book website will reload and you should now have full access.

# References

## Finite difference discretisation

- ▶ [https://www.ljll.math.upmc.fr/frey/cours/UdC/ma691/ma691\\_ch6.pdf](https://www.ljll.math.upmc.fr/frey/cours/UdC/ma691/ma691_ch6.pdf)
- ▶ <http://www-users.math.umn.edu/~arnold/papers/stability.pdf>

## Sparse LU factorisation

- ▶ I. S. Duff, A. M. Erisman, and J. K. Reid. *Direct Methods for Sparse Matrices*. Oxford University Press (2017),  
doi:10.1093/acprof:oso/9780198508380.001.0001

## Least squares, Krylov subspace methods

- ▶ L. N. Trefethen and D. Bau. *Numerical Linear Algebra*. Society for Industrial and Applied Mathematics (1997),

## Jacobi & multigrid methods

- ▶ J. W. Demmel. *Applied Numerical Linear Algebra*. Society for Industrial and Applied Mathematics (1997),  
doi:10.1137/1.9781611971446

# References

## Nonlinear equations

- ▶ R. L. Burden and J. D. Faires. *Numerical Analysis*. Brooks/Cole, Cengage Learning (2011),  
Also a good reference for many other topics in this module, with very detailed descriptions and many examples.