Publications by Lloyd N. Trefethen

I. Books


I.3. *Numerical Linear Algebra*, with David Bau III, xii+361 pages. SIAM, 1997. (This is SIAM’s all-time best-seller.)


In addition to these a book has been published about the international problem solving challenge I organised in 2002 (item X.8 below): F. Bornemann, D. Laurie, S. Wagon and D. Waldvogel, *The SIAM 100-Digit Challenge*, SIAM, 2004; also in German translation as *Vom Lösen Numerische Probleme*, Springer, 2006.

II. Finite difference and spectral methods for partial differential equations


III. Numerical linear algebra


**IV. Numerical conformal mapping and complex analysis**


**V. Approximation theory and related numerical methods**


VI. Eigenvalues, pseudospectra and dynamics


VII. Fluid dynamics


VIII. Quadrature


IX. Chebfun


X. Other


X.5. Predictions for scientific computing fifty years from now. *Mathematics Today*, April 2000, 53-57. (This essay won the Catherine Richards Prize.)


X.9. An American at Oxford, *Oxford Magazine*, May 2003. (This essay was discussed in the *Times Higher Education Supplement* and elsewhere.)


X.16. BMI (Body Mass Index), people.maths.ox.ac.uk/trefethen/bmi.html and bmi_calc.html, January 2013. (This contribution was covered by hundreds of newspapers and radio stations around the world and there have been half a million hits at the web pages.)