

Ph.D.	1979	California Institute of Technology	Applied Mathematics
B.S.	1975	California Institute of Technology	Physics

Publications:

1. D. Sheltraw and E.A. Coutsias, *Invertibility of Current Density from Near-Field Electromagnetic Field Data*, Journal of Applied Physics, to appear, (2003).
2. H.J.H. Clercx, A.H. Nielsen, D.J. Torres and E.A. Coutsias, *Two-dimensional turbulence in square and circular domains with no-slip walls*, European Journal of Mechanics B - Fluids 20(2001) 557-576 .
3. L. Ketai, C.M. Coutsias, S. Williamson and E.A. Coutsias, *HRCT Evidence of Bronchial Thickening in Children with Stable Asthma: Bronchoconstriction or Airway Remodeling?*, Academic Radiology, (2001).
4. K. Bergeron, E.A. Coutsias, J.P. Lynov and A.H. Nielsen, *Dynamical properties of forced shear layers in an annular geometry*, Journal of Fluid Mechanics, 402, p.255-289, (2000).
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8. E.A. Coutsias and N.D. Kazarinoff, *The Approximate Functional Formula for the Theta Function and Diophantine Gauss Sums*, Transactions of the AMS, 350(2), p.615-641, (1998).
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10. E.A. Coutsias, T. Hagstrom and D. Torres, *An efficient spectral method for ordinary differential equations with rational function coefficients*, Mathematics of Computation, **65** (216), 611-635, (1996).
11. K. Bergeron, E.A. Coutsias, J.P. Lynov and A.H. Nielsen. *Self Organization in 2D Circular Shear Layers*, Physica Scripta T67, 1996, p. 33-37.
12. E.A. Coutsias, T. Hagstrom, J.S. Hesthaven and D. Torres, *Integration preconditioners for differential operators in spectral τ -methods*, Houston Journal of Mathematics, 1996, Special Issue (Proceedings of ICOSAHOM 3, Andrew V. Ilin and L. Ridgway Scott, Eds.), p. 21-38.
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14. G. Harel, G. Kurizki, J.K. McIver and E.A. Coutsias, *Optimized preparation of quantum states by conditional measurement*, Phys. Rev. A. 53(6), June 1996, p. 4534-4538.
15. E.A. Coutsias, J.S. Hesthaven and J.P. Lynov. *New spectral algorithms for accurate simulations of bounded flows*, "Advanced Concepts and Techniques in Thermal Modelling", J. Periaux, Ed., (1996).
16. E.A. Coutsias, K. Bergeron, J.P. Lynov and A.H. Nielsen. *Self Organization in 2D Circular Shear Layers* AIAA Paper 94-2407, 25th Plasmadynamics and Lasers Conference, June 20-23, 1994, Colorado Springs, CO, p.1-12.
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