

Winslow, Alan M.

Numerical solution of the quasilinear Poisson equation in a nonuniform triangle mesh. (Reprint). (English) [Zbl 0890.65123](#)

J. Comput. Phys. 135, No. 2, 128-138 (1997).

See the review of the original paper [ibid. 1, 149-172 (1966); Erratum, ibid. 544 (1967; [Zbl 0254.65069](#))].

MSC:

- [65N50](#) Mesh generation, refinement, and adaptive methods for boundary value problems involving PDEs
- [01A75](#) Collected or selected works; reprintings or translations of classics
- [65-03](#) History of numerical analysis
- [65N06](#) Finite difference methods for boundary value problems involving PDEs
- [35J65](#) Nonlinear boundary value problems for linear elliptic equations

Cited in **1** Review
Cited in **8** Documents

Keywords:

quasilinear Poisson equation; grid generation; finite difference method; successive overrelaxation; numerical examples

Full Text: [DOI](#)

References:

- [1] Courant, R., *Bull. am. math. soc.*, 49, 1, (1943)
- [2] Tasny-Tschiasny, L., *J. appl. phys.*, 20, 419, (1949)
- [3] MacNeal, R.H., *Quart. appl. math.*, 11, 295, (1953/54)
- [4] R. Grandey, 1957, Lawrence Radiation Laboratory, Livermore, CA
- [5] C. E. Leith, 1958, Lawrence Radiation Laboratory, Livermore, CA
- [6] A. M. Winslow, 1964, UCRL-7784, Lawrence Radiation Laboratory, Livermore, California
- [7] 1965, Proceedings of the International Symposium on Magnet Technology, 170, Stanford Linear Accelerator Center, Stanford, CA
- [8] R. B. Kellogg, 1964, WAPD-BT-31, 51, Bettis Atomic Power Laboratory, Pittsburgh, PA
- [9] K. O. Friedrichs, 1962, NYO-9760, Inst. for Math. and Sci. New York Univ. NY
- [10] Rosen, P., *J. appl. phys.*, 25, 336, (1954)
- [11] Courant, R.; Hilbert, D., *Methods of mathematical physics*, (1962), Wiley-Interscience New York, p. 395- · [Zbl 0729.00007](#)
- [12] Synge, J.L., *The hypercircle in mathematical physics*, (1957), Cambridge Univ. Press London, p. 168-213 · [Zbl 0079.13802](#)
- [13] Schechter, S., *Trans. am. math. soc.*, 104, 179, (1962)
- [14] R. Christian
- [15] Lieberstein, H.M., *MRC tech. summ. report*, 80, (1959)
- [16] P. Concus, 1965, UCRL-16287, Lawrence Radiation Laboratory, Berkeley, CA
- [17] 1965, Proceedings of the International Symposium on Magnet Technology, H. BrechnaH. S. Gordon, 164, Stanford Linear Accelerator Center, Stanford, CA
- [18] Kronrod, A.S., *Dokl. akad. nauk. SSR*, 132, 95, (1960)
- [19] J. S. Colonias, J. H. Dorst, 1965, UCRL-16382, Lawrence Radiation Laboratory, Berkeley, CA
- [20] J. H. Dorst, 1965, UCRL-11798 and UCRL-16389, Lawrence Radiation Laboratory, Berkeley, CA
- [21] R. B. Kellogg, 1965, Proceedings of the Conference on Computing Methods to Reactor Problems, ANL-7050, 147, Argonne National Laboratory, Argonne, IL
- [22] Greville, T.N.E., *J. soc. ind. appl. math.*, 9, 109, (1961)
- [23] Crowley, W.P., *Memorandum*, (1962)
- [24] A. M. Winslow, 1963, UCRL-7312, Lawrence Radiation Laboratory, Livermore, CA

[25] Noh, W.F., (), 130

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