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MSC:

65R20 Numerical methods for integral equations

Cited in **6** Documents

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References:

- [1] Robinson, A.; Laurmann, J.A., *Wing theory*, (1956), Cambridge University Press Cambridge, England · [Zbl 0073.41901](#)
- [2] Hedman, S.G., *Vortex lattice method for calculation of quasi-steady state loadings on thin elastic wings in subsonic flow*, ()
- [3] Woodward, F.A., *A unified approach to the analysis and design of wing-body combinations at subsonic and supersonic speeds*, AIAA paper, 68-55, (1968)
- [4] Woodward, F.A.; Larson, J.W., *A method of optimizing camber surfaces for wing-body combinations at supersonic speeds — theory and application*, ()
- [5] Lissaman, P.B.S., *A linear theory for the jet flap in ground effect*, AIAA journal, 6, no. 7, 1356-1362, (1968) · [Zbl 0164.27603](#)
- [6] Multhopp, H., *Methods for calculating the lift distribution of wings (subsonic lifting surface theory)*, (1950), Aeronautical Research Council England, R and M 2884
- [7] Garner, H.C.; Hewitt, B.L.; Labrujere, T.E., *Comparison of three methods for the evaluation of subsonic lifting surface theory*, ()
- [8] Landahl, M.T.; Stark, V.E., *Numerical lifting surface theory, problems and progress*, AIAA journal, 6, no. 11, 2049-2060, (1968) · [Zbl 0187.49702](#)
- [9] Giesing, J.P., *Lifting surface theory for wing-fuselage combinations*, () · [Zbl 0184.52201](#)
- [10] Albano, E.; Rodden, W.P., *A doublet lattice method for calculating lift distributions on oscillating surfaces in subsonic flows*, AIAA journal, 7, no. 2, 279-285, (1969) · [Zbl 0202.26002](#)
- [11] James, R.M., *Comments and numerical experiments concerning the computation of steady and unsteady linear wing theory*, ()
- [12] Titchmarsh, E.C., *Introduction to the theory of Fourier integrals*, (1948), Oxford University Press Oxford, England · [Zbl 0031.03202](#)
- [13] Muskhelishvili, N.I., *Singular integral equations*, () · [Zbl 0108.29203](#)
- [14] Ashley, H.; Landahl, M.T., *Aerodynamics of wings and bodies*, (1965), Addison-Wesley, Inc Reading, Mass · [Zbl 0161.22502](#)
- [15] Heaslet, M.A.; Lomax, H., *Supersonic and transonic small perturbation theory*, (), Section D
- [16] James, R.M., *On the remarkable accuracy of the vortex lattice discretization in thin wing theory*, ()
- [17] Isaacson, E.; Keller, H.B., *Analysis of numerical methods*, (1966), John Wiley New York · [Zbl 0168.13101](#)
- [18] Collar, A.R., *On the reciprocal of a segment of a generalized Hilbert matrix*, (), Pt. 1 · [Zbl 0042.01303](#)
- [19] Collar, A.R., *On the accuracy of the representation of a lifting line by a finite set of horseshoe vortices*, (), 232-250
- [20] Whittaker, E.T.; Watson, G.N., *Modern analysis*, (1952), Cambridge University Press Cambridge, England · [Zbl 0108.26903](#)
- [21] (), 821-873

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