

## **PUBLICATIONS**

### **BOOKS and BOOK SIZE ARTICLES**

1. R. GLOWINSKI, J. L. LIONS & R. TRÉMOLIÈRES, *Numerical Analysis of Variational Inequalities*, North-Holland, Amsterdam, 1981.
2. M. FORTIN & R. GLOWINSKI, *Augmented Lagrangians: Application to the Numerical Solution of Boundary Value Problems*, North-Holland, Amsterdam, 1983.
3. R. GLOWINSKI, *Numerical Methods for Nonlinear Variational Problems*, Springer, New York, NY, 1984 (2<sup>nd</sup> printing: 2008).
4. M. BLANC, D. FONTAINE, R. GLOWINSKI & L. REINHART, *Simulation of Electron Transport in the Earth Magneto-Sphere*, Gordon & Breach, New York, 1987.
5. R. GLOWINSKI & P. LE TALLEC, *Augmented Lagrangians and Operator-Splitting Methods in Nonlinear Mechanics*, SIAM, Philadelphia, PA, 1989.
6. R. GLOWINSKI, Numerical methods for incompressible viscous flow. In *Handbook of Numerical Analysis*, Vol. **IX**, P. G. Ciarlet & J.L. Lions, eds., North-Holland, Amsterdam, 2003, 3-1176.
7. R. GLOWINSKI, J.L. LIONS & J.W. HE, *Exact and Approximate Controllability for Distributed Parameter Systems: A Numerical Approach*, Cambridge University Press, Cambridge, UK, 2008.
8. R. GLOWINSKI & A. WACHS, On the numerical simulation of viscoplastic fluid flow. In *Handbook of Numerical Analysis*, Vol. **XVI**, P. G. Ciarlet, R. Glowinski & J. Xu, eds., North-Holland, Amsterdam, 2011, 483-717.
9. R. GLOWINSKI, *Variational Methods for Nonlinear Elliptic Problems*, SIAM, Philadelphia, PA, 2015.

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- [1] GLOWINSKI, R., Résolution numérique d'un problème non-classique du Calcul des Variations. In *Symposium on Optimization*, Lecture Notes in Mathematics, **Vol. 132**, Springer, Berlin, 1970, 108-129.
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- [4] GLOWINSKI, R., La Méthode de Relaxation: Application à la Minimisation des Fonctionnelles Convexes, *Rendi Conti di Matematica*, **Vol. 14**, Rome, 1971.
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- [11] R. GLOWINSKI, Approximation numérique des solutions périodiques de l'équation intégro-différentielle  $\frac{du}{dt} + \int_0^1 A(t, \tau) d\tau + \varphi(u) = f$ , *Journal of Math. Analysis and Applications*, **41**(1), (1973), 67-96.

- [12] GLOWINSKI, R., Approximations externes par éléments finis d'ordre un et deux du problème de Dirichlet pour l'opérateur biharmonique. Méthode itérative de résolution des problèmes approchés. In *Topics in Numerical Analysis*, J.H. Miller, ed., Academic Press, London, 1973, 123-171.
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*As of March 30, 2018*

