

LIST OF PUBLICATIONS OF NIKOLAOS I. IOAKIMIDIS

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Note: At the end of some articles the indications *AMR*, *MR*, *ZM* and *Scopus* inside brackets denote the citation of this article (simple citation, abstract or review) in the related databases, i.e.

- *AMR* for the journal *Applied Mechanics Reviews* of the American Society of Mechanical Engineers (ASME). (Unfortunately, this journal ceased citing the publications in *Applied Mechanics* since 2004. Moreover, the related database is not available to the writer in its complete form even when it existed. Therefore, the related indication *AMR* at the end of some of the articles below concerns only a very small number of the articles below cited in the journal *Applied Mechanics Reviews*.)
- *MR* for the journal *Mathematical Reviews* or better for the electronic database *MathSciNet* of the American Mathematical Society (AMS).
- *ZM* for the journal *Zentralblatt für Mathematik* or better for the electronic database *Zentralblatt MATH – ZBMATH* of the European Mathematical Society, FIZ Karlsruhe (Leibniz Institute for Information Infrastructure) and Heidelberger Akademie der Wissenschaften (Heidelberg Academy of Sciences), which is published by the publishing house Springer.
- *Scopus* for the electronic database *Scopus* of the publishing house Elsevier.

A. THESES AND BOOKS

- [A1] Ioakimidis, N. I. (1973), *Wedge and Crack Problems in the Theory of Elasticity* (in Greek). Master thesis at the National Technical University of Athens, iv+120 pages, Athens, Greece. [web page at ResearchGate with available the PDF file of the complete master thesis: <https://www.researchgate.net/publication/333015687>]
- [A2] Ioakimidis, N. I. (1976), *General Methods for the Solution of Crack Problems in the Theory of Plane Elasticity* (in Greek with an extensive English summary). Ph.D. thesis (for the degree of Doctor Engineer) at the National Technical University of Athens, xlvii+406 pages, Athens, Greece. [MR, ZM; web page at ResearchGate with available the PDF file of the complete Ph.D. thesis: <https://www.researchgate.net/publication/268643801>]

- [A3] Ioakimidis, N. I. (2008), *Applied Mathematics II for Civil Engineers, Part 1: Applied Ordinary Differential Equations for Civil Engineers* (in Greek), xiv+482 pages. Gotsis Publications, Patras, Greece. [[copyright notice](#), [cover](#), [web page](#)]
- [A4] Ioakimidis, N. I. (2008), *Applied Mathematics II for Civil Engineers, Part 2: Applied Exercises and Notebooks II for Civil Engineers* (in Greek), x+260 pages. Gotsis Publications, Patras, Greece. [[copyright notice](#), [cover](#), [web page](#)]
- [A5] Ioakimidis, N. I. (2008), *Applied Mathematics II for Civil Engineers, Part 3: Useful Commands of Mathematica for Civil Engineers* (in Greek), x+181 pages. Gotsis Publications, Patras, Greece. [[copyright notice](#), [cover](#), [web page](#)]
- [A6] Ioakimidis, N. I. (2008), *Applied Mathematics III for Civil Engineers, Part 1: Applied Partial Differential Equations, Integral Equations and Complex Variables for Civil Engineers* (in Greek), xii+300 pages, viii+90 pages, viii+93 pages, respectively. Gotsis Publications, Patras, Greece. [[copyright notice](#), [cover](#), [web page](#)]
- [A7] Ioakimidis, N. I. (2008), *Applied Mathematics III for Civil Engineers, Part 2: Applied Exercises and Notebooks III for Civil Engineers* (in Greek), x+261 pages. Gotsis Publications, Patras, Greece. [[copyright notice](#), [cover](#), [web page](#)]
- [A8] Ioakimidis, N. I. (2012), *Applied Mathematics II, Mathematics for Civil Engineers: Applied Ordinary Differential Equations for Civil Engineers* (in Greek), xviii+1083 pages; second, combined and expanded edition of the above books [A3], [A4] and [A5]. Gotsis Publications, Patras, Greece. [[cover](#)]
- [A9] Ioakimidis, N. I. (2012), *Applied Mathematics III, Mathematics for Civil Engineers: Applied Partial Differential Equations, Integral Equations and Complex Variables for Civil Engineers* (in Greek), xx+905 pages; second, combined and expanded edition of the above books [A6] and [A7]. Gotsis Publications, Patras, Greece. [[cover](#)]

B. PUBLICATIONS IN SCIENTIFIC JOURNALS IN ENGLISH

- [B1] Theocaris, P. S. and Ioakimides, N. (1971), Some Properties of Generalized Epicycloids Applied to Fracture Mechanics. *Zeitschrift für angewandte Mathematik und Physik (ZAMP)*, Vol. **22**, No. 5, pp. 876–890. [[ZM](#), [Scopus](#), [web page](#)]
- [B2] Theocaris, P. S. and Ioakimidis, N. (1976), The Symmetrically Branched Crack in an Infinite Elastic Medium. *Zeitschrift für angewandte Mathematik und Physik (ZAMP)*, Vol. **27**, No. 6, pp. 801–814. [[AMR](#), [ZM](#), [Scopus](#), [web page](#)]
- [B3] Theocaris, P. S. and Ioakimidis, N. I. (1976), On the Numerical Evaluation of Stress Intensity Factors. *International Journal of Fracture*, Vol. **12**, No. 6, pp. 911–914. [[Scopus](#), [web page](#)]
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- [B5] Theocaris, P. S. and Ioakimidis, N. I. (1977), Numerical Integration Methods for the Solution of Singular Integral Equations. *Quarterly of Applied Mathematics*, Vol. **35**, No. 1, pp. 173–183. [[AMR](#), [MR](#), [ZM](#), [Scopus](#), [web page](#)]
- [B6] Ioakimidis, N. I. and Theocaris, P. S. (1977), The Problem of the Simple Smooth Crack in an Infinite Anisotropic Elastic Medium. *International Journal of Solids and Structures*, Vol. **13**, No. 4, pp. 269–278. [[AMR](#), [MR](#), [ZM](#), [Scopus](#), [web page](#)]
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- [B9] Theocaris, P. S. and Ioakimidis, N. I. (1977), Stress Intensity Factors at the Tips of an Antiplane Shear Crack Terminating at a Bimaterial Interface. *International Journal of Fracture*, Vol. **13**, No. 4, pp. 549–552. [Scopus, [web page](#)]
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