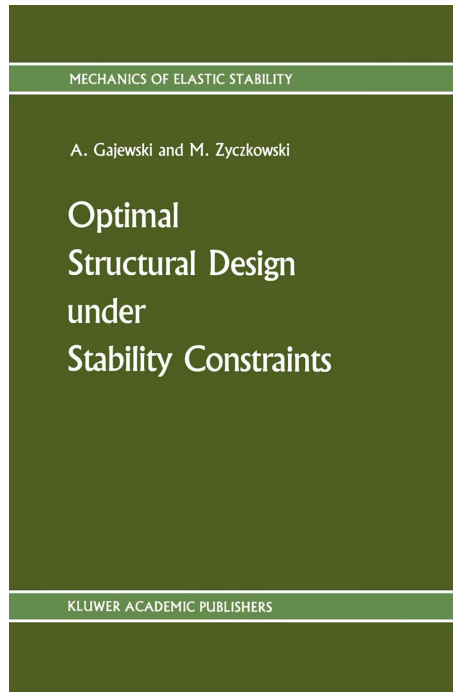




**Professor Antoni Gajewski**



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### **Selected Publications:**

#### **Book:**

Gajewski, A.; Zyczkowski, M. 1988: Optimal structural design under stability constraints. Dordrecht, Boston, London: Kluwer Academic

#### **Journal Articles, etc.:**

Antoni Gajewski and Michal Zyczkowski, "Optimal design of elastic columns subject to the general conservative behaviour of loading", Zeitschrift fuer Angewandte Mathematik und Physik (ZAMP), Vol. 21, pp 806-818, September 1970

M. Zyczkowski and A. Gajewski, "Instability of continuous systems", IUTAM Symposium, 1971

Antoni Gajewski and Michal Zyczkowski, "Influence of simultaneous non-homogeneous external and internal damping upon the stability of non-conservative systems", Mechanika Teoretyczna I Stosowana, Vol. 10, January 1972

J. Blachut and Antoni Gajewski, "On unimodal and bimodal optimal design of funicular arches", International Journal of Solids and Structures, Vol. 17, pp 653-667, December 1981

Antoni Gajewski, "A note on unimodal and bimodal optimization of vibrating compressed columns", International Journal of Mechanical Sciences, Vol. 23, pp 11-16, December 1981

Bogdan Bochenek and Antoni Gajewski, "Unimodal and bimodal optimization of a portal frame", Rozprawy Inzynierskie, Vol. 30, January 1982

Antoni Gajewski, "Bimodal optimization of a column in an elastic medium with respect to buckling or vibration", International Journal of Mechanical Sciences, Vol. 27, pp 45-53, December 1985

Bogdan Bochenek and Antoni Gajewski, "Multimodal optimal design of a circular funicular arch with respect to in-plane and out-of-plane buckling", Journal of Structural Mechanics, Vol. 14, pp 257-274, September 1986

Antoni Gajewski and Michal Zyczkowski, "Methods of structural optimization", Chapter in Vol. 13 of Mechanics of Elastic Stability, Springer, pp 41-68, January 1988

Bogdan Bochenek and Antoni Gajewski, "Multimodal optimization of arches under stability constraints with two independent design functions", International Journal of Solids and Structures, Vol. 25, pp 67-74, December 1989

Gajewski, A. 1991: Multimodal optimization of uniformly compressed cylindrical shells. In: Eschenauer, H.A.; Mattheck, C.; Olhoff, N. (eds.) Engineering Optimization in Design Processes (ICKNC held in Karlsruhe 1990) pp. 275–282. Berlin Heidelberg New York: Springer

A. Gajewski and Piotr Cupial, "Optimal structural design of an annular plate compressed by non-conservative forces", International Journal of Solids and Structures, Vol. 29, pp 1283-1292, December 1992

A. Gajewski and Z. Piekarski, "Optimal structural design of a vibrating beam with periodically varying cross-section", Structural Optimization, Vol. 7, pp 112-116, February 1994