



Professor Robert M. Korol

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<http://www.wanttoknow.info/070618professorsquestion911>

http://www.eic-ici.ca/PDFs/honours_award/cit06/Korol.pdf

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Biography:

Robert M. Korol, PhD – Professor Emeritus, Department of Civil Engineering, McMaster University. Elected Fellow of the Engineering Institute of Canada for exceptional contributions to engineering in Canada. Fellow of the Canadian Society for Civil Engineering. Well known for research on steel structures; the plastic theory of metal structures, inelastic buckling, limit analysis, environmental assessment and life cycle analysis methodologies. Hamilton-Wentworth's 1998 "Engineer of the Year."

Selected Publications:

Korol R.M., Sherbourne A.N. (1972), Strength prediction of plates in uniaxial compression, ASCE Journal of Structural Division, 98, 1965-1986.

Sherbourne, A.N. and R.M. Korol, Postbuckling of axially compressed plates, Proc. ASCE, 98, ST10 (1972), 2223–2234

Korol, R. M. "Buckling of circular tubes in bending." Journal of Engineering Mechanics ASCE 104 no. 4 (1978): 289-290, 939+

Korol, R. M. (1979): "Critical Buckling Strains of Round Tubes in Flexure", International Journal Mech. Sci., vol. 21, pp. 719-730

Korol, R.M. 1991. An assessment of Fredericton's Regent Steel Tower Reservoir failure. Technical Report, McMaster University, Hamilton, Ont., Canada.

El Damatty AA, Korol RM, Mirza FA. Large displacement extension of consistent shell element for static and dynamic analysis. *Comput Struct* 1997;62:943-60.

A. A. El Damatty, R. M. Korol and F. A. Mirza, "Stability of Imperfect Steel Conical Tanks under Hydrostatic Loading." *ASCE J. Struct. Eng.*, 123(6), 703-712, 1997.

A. A. El Damatty, R. M. Korol and F. A. Mirza, "Stability of elevated liquid-filled conical tanks under seismic loading, Part I – Theory", *Earthquake Engineering Structural Dynamics*, Vol. 26, No. 12, pp 1191-1208, December 1997

El Damatty AA, Korol RM, Mirza FA, 1997, "Stability of elevated liquid-filled conical tanks under seismic loading". Part II-Applications, *Earthquake Engineering and Structural Dynamics*, Volume 26, pages: 1209-1229.

El Damatty AA, El-Attar M, Korol RM. 1998. Inelastic stability of conical tanks. *Thin-walled Structures* 31(4): 343-359

El Damatty AA, El Attar M, Korol RM. 1999. Simple design procedure for liquid filled steel conical tanks. *Journal of Structural Engineering* 125(8): 879-890