



Robert Korol, PhD

McMaster University
Structural Engineering

Google Scholar

Citation indices	All	Since 2011
Citations	756	235
h-index	17	9
i10-index	25	9

Title	1–83	Cited by	Year
Large displacement extension of consistent shell element for static and dynamic analysis	AA El Damatty, RM Korol, FA Mirza Computers & structures 62 (6), 943-960	48	1997
Finite element analysis of RHS T-joints	RM Korol, FA Mirza Journal of the Structural Division 108 (9), 2081-2098	48	1982
Extended end-plate connections under cyclic loading: Behaviour and design	RM Korol, A Ghobarah, A Osman Journal of Constructional Steel Research 16 (4), 253-280	45	1990
Behaviour of extended end-plate connections under cyclic loading	A Ghobarah, A Osman, RM Korol Engineering Structures 12 (1), 15-27	43	1990
Blind bolting W-shape beams to HSS columns	RM Korol, A Ghobarah, S Mourad Journal of Structural Engineering 119 (12), 3463-3481	40	1993
Cyclic behavior of extended end-plate joints	A Ghobarah, RM Korol, A Osman Journal of Structural Engineering 118 (5), 1333-1353	39	1992
Stability of imperfect steel conical tanks under hydrostatic loading	AAE Damatty, RM Korol, FA Mirza Journal of Structural Engineering 123 (6), 703-712	35	1997
Critical buckling strains of round tubes in flexure	RM Korol International Journal of Mechanical Sciences 21 (12), 719-730	32	1979
Strength predictions of plates in uniaxial compression	RM Korol, AN Sherbourne Journal of the Structural Division 98 (9), 1965-1986	32	1972
Shear lag in slotted HSS tension members	RM Korol Canadian Journal of Civil Engineering 23 (6), 1350-1354	29	1996
Unequal width connections of square hollow sections in Vierendeel trusses	RM Korol, M El-Zanaty, FJ Brady	27	1977

- [Stability of elevated liquid-filled conical tanks under seismic loading, Part I— theory](#) 23 1997
AA El Damatty, RM Korol, FA Mirza
Earthquake engineering & structural dynamics 26 (12), 1191-1208
- [Evaluating technical alternatives on basis of sustainability](#) 21 1995
BW Baetz, RM Korol
Journal of Professional Issues in Engineering Education and Practice 121 (2 ...
- [Stability of elevated liquid-filled conical tanks under seismic loading, Part II— applications](#) 20 1997
AA El Damatty, RM Korol, FA Mirza
Earthquake engineering & structural dynamics 26 (12), 1209-1229
- [Post-buckling of axially compressed plates](#) 18 1972
AN Sherbourne, RM Korol
Journal of the Structural Division 98 (10), 2223-2234
- [Inelastic stability of conical tanks](#) 17 1998
AA El Damatty, M El-Attar, RM Korol
Thin-walled structures 31 (4), 343-359
- [Dynamic response of hollow section frames with bolted moment connections](#) 17 1995
S Mourad, A Ghobarah, RM Korol
Engineering structures 17 (10), 737-748
- [Moment-rotation relationship of blind bolted connections for HSS columns](#) 16 1996
A Ghobarah, S Mourad, RM Korol
Journal of Constructional Steel Research 40 (1), 63-91
- [Plate reinforced square hollow section T-joints of unequal width](#) 16 1982
RM Korol, H Mitri, FA Mirza
Canadian Journal of Civil Engineering 9 (2), 143-148
- [Simple design procedure for liquid-filled steel conical tanks](#) 15 1999
AAE Damatty, M El-Attar, RM Korol
Journal of Structural Engineering 125 (8), 879-890
- [Investigation of shear lag in slotted HSS tension members](#) 15 1994
RM Korol, FA Mirza, MY Mirza
Proceedings, 6th International Symposium on Tubular Structures, Melbourne ...
- [Prediction of local buckling and rotation capacity at maximum moment](#) 14 1995
ML Mali, RM Korol
Journal of Constructional Steel Research 32 (1), 1-13
- [Implications of design philosophies for seismic response of steel moment frames](#) 14 1995
A Osman, A Ghobarah, RM Korol
Earthquake engineering & structural dynamics 24 (1), 127-143
- [On primary and secondary stresses in triangulated trusses](#) 14 1986
RM Korol, A Putenberg, D Bagnariol

[Modelling of double chord rectangular hollow section T-joints by finite element method](#)

FA Mirza, AA Shehata, RM Korol
Computers & Structures 15 (2), 123-129

13 1982

[Analytical and experimental investigation of the dynamic response of liquid-filled conical tanks](#)

A El Damatty, RM Korol, LM Tang
Proc. World Conf. Earthquake Engrg, Pap 966, 8

8 2000

[Adequate ductility in steel beams under earthquake-type loading](#)

ML Daali, RM Korol
Engineering structures 18 (2), 179-189

8 1996

[Theoretical analysis of haunch-reinforced T-joints in square hollow sections](#)

RM Korol, MH Mansour
Canadian Journal of Civil Engineering 6 (4), 601-609

8 1979

[Seismic performance of moment resisting frames with flexible joints](#)

A Osman, A Ghobarah, RM Korol
Engineering Structures 15 (2), 117-134

7 1993

[An experimental investigation of the effects of imperfections on the strength of steel box girders](#)

RM Korol, EG Thimmhardy, MS Cheung
Canadian Journal of Civil Engineering 15 (3), 443-449

6 1988

[Field investigation of out-of-plane deviations for steel box girder bridges](#)

RM Korol, EG Thimmhardy, MS Cheung
Canadian Journal of Civil Engineering 11 (3), 377-386

6 1984

[An experimental investigation of double chord HSS trusses](#)

RM Korol, FA Mirza, ETC Chiu
Canadian Journal of Civil Engineering 10 (2), 248-260

6 1983

[Predicting the behaviour of HSS double chord trusses-a comparison with test results](#)

RM Korol, FA Mirza, ETC Chiu
Canadian Journal of Civil Engineering 10 (2), 261-270

6 1983

[Design of extended end-plate connections for hollow section columns](#)

S Mourad, RM Korol, A Ghobarah
Canadian Journal of Civil Engineering 23 (1), 277-286

5 1996

[Low cycle fatigue damage assessment in steel beams](#)

ML Daali, RM Korol
Structural Engineering and Mechanics 3 (4), 341-358

5 1995

[Geometric imperfections and tolerances for steel box girder bridges](#)

EG Thimmhardy, RM Korol
Canadian Journal of Civil Engineering 15 (3), 437-442

5 1988

The strength of beam-to-staggered column connections of rectangular hollow sections	4	1984
HS Mitri, RM Korol International journal of mechanical sciences 26 (6-8), 459-470		
K-joints of double-chord square hollow sections	4	1980
RM Korol, MA Chidiac Canadian Journal of Civil Engineering 7 (3), 523-539		
Rectangular hollow section double-chord T-joints	4	1979
MA Chidiac, RM Korol Journal of the Structural Division 105 (8), 1717-1721		
Inelastic Buckling of Circular Tubes in Bending	4	1978
RM Korol Journal of the Engineering Mechanics Division 104 (4), 939-950		
Energy absorption potential of light weight concrete floors	3	2012
RM Korol, KS Sivakumaran Canadian Journal of Civil Engineering 39 (11), 1193-1201		
Elasto-plastic finite element analysis of double chord rectangular hollow section T-joints	3	1984
FA Mkza, AA Shehata, RM Korol Computers & structures 19 (5), 829-838		
Structural safety of ultra-twist blind fasteners in tension	2	1997
SW Tabsh, S Mourad, RM Korol Canadian Journal of Civil Engineering 24 (2), 211-217		
Double chord RHS trusses: analytical model	2	1983
FA Mirza, RM Korol Journal of Structural Engineering 109 (12), 2812-2828		
Performance-based fire protection of office buildings: A case study based on the collapse of WTC 7	1	2015
R Korol, F Greening, P Heerema Challenge Journal of Structural Mechanics 1 (3), 96-105		
Energy absorption potential of concrete floors containing secondary (shrinkage and temperature) reinforcements	1	2014
KS Sivakumaran, RM Korol, X Fan Frontiers of Structural and Civil Engineering 8 (3), 282-291		
Reassessing the Plastic Hinge Model for Energy Dissipation of Axially Loaded Columns	1	2014
RM Korol, KS Sivakumaran Journal of Structures 2014		
Stability of Imperfect Steel Conical Tanks under Hydrostatic Loading	1	1998
AA El Damatty, RM Korol, FA Mirza JOURNAL OF STRUCTURAL ENGINEERING-NEW YORK- 124, 1231-1231		

Local Buckling Rules for Rotation Capacity	1	1994
ML Daali, RM Korol AISC Engineering Journal 31 (2), 41-47		
Finite Element Model for RHS Double Chord K-Joints	1	1989
RM Korol, HS Mitri, FA Mirza Journal of Structural Engineering 115 (5), 1038-1053		
Double Chords as an Alternative in Tubular Trusses	1	1986
RM Korol Journal of Structural Engineering 112 (12), 2665-2678		
Strength analysis of RHS double chord joints with separated chords	1	1985
RM Korol, HS Mitri Canadian Journal of Civil Engineering 12 (2), 370-381		
A model to represent the effect of cold-bending wide sheet on subsequent behaviour under uniaxial stressing	1	1971
RM Korol International Journal of Mechanical Sciences 13 (8), 681-688		
15 years later: on the physics of high-rise building collapses		2016
S Jones, R Korol, A Szamboti, T Walter Europhysics News 47 (4), 21-26		
The collapse of WTC 7: A re-examination of the "simple analysis" approach		2016
R Korol, P Heerema, K Sivakumaran Challenge Journal of Structural Mechanics 2 (1), 25-31		
11 BEHAVIOUR OF BLIND BOLTED MOMENT CONNECTIONS FOR HSS COLUMNS		2004
A GHOBARAH, S MOURAD, RM KOROL Tubular Structures V, 125		
Simple Design Procedure for Liquid-Filled Steel Conical Tanks		2000
JH Scarino, D Vandepitte, AAE Damatty, RM Korol, ME Attar Journal of Structural Engineering 126 (11), 1372-1374		
Closure to "Simple Design Procedure for Liquid-Filled Steel Conical Tanks" by AA El Damatty, RM Korol, and M. El Attar		2000
AA El Damatty, RM Korol, M El Attar Journal of Structural Engineering 126 (11), 1373-1374		
Evaluating Technical Alternatives on Basis of Sustainability		1997
BW Baetz, RM Korol, GL DeMers, BW Baetz Journal of Professional Issues in Engineering Education and Practice ...		
YM ALOSTAZ & SP SCHNEIDER (USA)		1997
I AHMED, KF CHUNG, CA CASTIGLIONI, L CALADO, A GHOBARAH, ...		
Cyclic behaviour of locally web-stiffened W-shape beams		1995
RM Korol, ML Daali Canadian Journal of Civil Engineering 22 (1), 121-134		

- SHORT COMMUNICATION Modal Equations of Linear Structures with Viscoelastic Dampers: JA Inaudi and JM Kelly 145** 1995
JR Casas, MRB Hjelmstad, MR Banan, AK Mittal, AK Jain, A Osman, ...
Earthquake engineering & structural dynamics 24 (1-3), 150
- Integrating Sustainable Development Concepts Into An Engineering And Society Programme** 1991
BW Baetz, RM Korol
Technology and Society, 1991. ISTAS'91: Preparing for a Sustainable Society ...
- An Economic Comparison of Single Chord and Double Chord RHS Warren Trusses** 1991
RT Luft, RM Korol, H Huitema
Delft University Press(Netherlands),, 11-20
- Joint flexibility effects on rectangular hollow section Vierendeel trusses** 1987
AA Shehata, RM Korol, FA Mirza
Journal of structural mechanics 15 (1), 89-107
- A twin shear beam model for double chord RHS joints** 1986
HS Mitri, RM Korol, FA Mirza
Computers & structures 23 (1), 59-67
- Residual Stresses Robert M. Korol Professor Department of Civil Engineering** 1985
RM Korol
CANCAM Proceedings, 295
- Inelastic Analysis of Rectangular Hollow Section T-Joints by Finite Element Method** 1984
FA Mirza, AA Shehata, RM Korol
Computational Methods and Experimental Measurements, 597-608
- FINITE ELEMENT MODELLING OF GAP JOINTS WITH SEPARATED RHS DOUBLE CHORDS** 1984
FA Mirza, HS Mitri, RM Korol
Proceedings-Canadian Society for Civil Engineering 2, 289
- Inelastic Finite Element Analysis of Vierendeel Trusses of Rectangular Hollow Sections** 1984
RM Korol, AA Shehata, FA Mirza
Computational Methods and Experimental Measurements, 571-581
- McMaster University, Hamilton, Ontario, Canada, L8S 4L7 Stone and Webster Engineering Corp., Shippingport, Pa., US** 1984
FA Mirza, AA Shehata, RM Korol
Computational Methods and Experimental Measurements: Proceedings of the 2nd ...
- ON THE BEHAVIOR OF COLD-FORMED MEMBERS UNDER NORMAL STRESSES-EFFECTS OF THE COLD-FORMING RESIDUAL-STRESSES** 1982
RM KOROL, M LORRAIN, AN SHAFAY
JOURNAL DE MECANIQUE THEORIQUE ET APPLIQUEE 1 (3), 511-532
- Elasto-Plastic Modelling of Double Chord Rhs Trusses**

- FA Mizra, RM Korol
Faculty of Engineering, McMaster University. 1982
- [Parametric study of standard RHS double chord K-joints](#)
- RM Korol, RG Keen
Canadian Journal of Civil Engineering 8 (4), 456-463 1981
- [Buckling of Cylindrical Shells Under Axial Compression](#)
AN Sherbourne, RM Korol
Journal of the Structural Division, American Society of Civil Engineers 93, 29 1967
- [Model for Compression of Elastic-Plastic Cylinders](#)
RM Korol, AN Sherbourne
Journal of the Structural Division, American Society of Civil Engineers 93, 1 1967
- [Buckling of cylindrical shells under axial compression\(Circular cylinders buckling under axial compression loads using modified geometric model\)](#)
RM KOROL, AN SHERBOURNE
AMERICAN SOCIETY OF CIVIL ENGINEERS, STRUCTURAL DIVISION, JOURNAL 93, 29-51 1967
- [The World Trade Center Analyses: Case Study of Ethics, Public Policy and the Engineering Profession](#)
WH Coste, MR Smith, RM Korol
- [CONTEN'rSOFVOLUME6](#)
C W F, EM Lui, D VANDEPITYE, RM KOROL, A RUTENBERG, ...
- [Les analyses du World Trade Center: Étude de cas sur l'éthique, la politique publique et la profession d'ingénieur](#)
WH Coste, MR Smith, RM Korol
- [List of contents](#)
DJ Dawe, ZG Azizian, ID Desai, VS Chandrasekaran, JL Chaboche, ...
- [STRUCTURES](#)
M Dicleft, M Bruneau, N Wang, JG Teng, YL Pi, NS Trahair, YL Xu, ...
- [OVER 100 McMASTER PROFESSORS CALL FOR PANEL REVIEW](#)
S Yours, JS Quinn, RM Korol, BN White, B McCarry, BW Baetz, ...

Dates and citation counts are estimated and are determined automatically by a computer program.