

Anil K Chopra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6273190/publications.pdf>

Version: 2024-02-01

99
papers

7,017
citations

57631

44
h-index

58464

82
g-index

102
all docs

102
docs citations

102
times ranked

2570
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Modeling viscous damping in nonlinear response history analysis of steel moment-resisting frame buildings: Design plus ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 903-915. | 2.5 | 11 |
| 2 | Modal combination rules in response spectrum analysis: Early history. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 260-269. | 2.5 | 5 |
| 3 | Selecting, scaling, and orienting three components of ground motions for intensity-based assessments at far-field sites. <i>Earthquake Spectra</i> , 2020, 36, 1013-1037. | 1.6 | 11 |
| 4 | Direct finite element method for nonlinear earthquake analysis of concrete dams: Simplification, modeling, and practical application. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 818-842. | 2.5 | 23 |
| 5 | Direct finite element method for nonlinear earthquake analysis of three-dimensional semi-unbounded dam-water-foundation rock systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1309-1328. | 2.5 | 31 |
| 6 | Determining Bidirectional Ground Motions for Nonlinear Response History Analysis of Buildings at Far-Field Sites. <i>Earthquake Spectra</i> , 2018, 34, 1931-1954. | 1.6 | 8 |
| 7 | Direct finite element method for nonlinear analysis of semi-unbounded dam-water-foundation rock systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1267-1285. | 2.5 | 49 |
| 8 | A Generalized Conditional Mean Spectrum and Its Application for Intensity-Based Assessments of Seismic Demands. <i>Earthquake Spectra</i> , 2017, 33, 123-143. | 1.6 | 28 |
| 9 | Response to John Hall's Discussion (EQE 16-0008) to Chopra and McKenna's paper, "Modeling viscous damping in nonlinear response history analysis of buildings for earthquake excitation". <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 2235-2238. | 2.5 | 6 |
| 10 | Modeling viscous damping in nonlinear response history analysis of buildings for earthquake excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 193-211. | 2.5 | 140 |
| 11 | Evaluation of the exact conditional spectrum and generalized conditional intensity measure methods for ground motion selection. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 757-777. | 2.5 | 23 |
| 12 | A ground motion selection procedure for enforcing hazard consistency and estimating seismic demand hazard curves. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2467-2487. | 2.5 | 18 |
| 13 | Authors' reply to the discussion by Brendon A. Bradley of "A framework for the evaluation of ground motion selection and modification procedures". <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 823-828. | 2.5 | 1 |
| 14 | Errors caused by peak factor assumptions in response-spectrum-based analyses. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1729-1746. | 2.5 | 8 |
| 15 | A framework for the evaluation of ground motion selection and modification procedures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 795-815. | 2.5 | 30 |
| 16 | Evaluation of ground motion selection and modification procedures using synthetic ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1841-1861. | 2.5 | 21 |
| 17 | Response Spectrum Analysis of Concrete Gravity Dams Including Dam-Water-Foundation Interaction. <i>Journal of Structural Engineering</i> , 2015, 141, . | 1.7 | 24 |
| 18 | Modal Pushover-Based Scaling of Two Components of Ground Motion Records for Nonlinear RHA of Structures. <i>Earthquake Spectra</i> , 2012, 28, 1243-1267. | 1.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Helmut Krawinkler: a tribute. Earthquake Engineering and Structural Dynamics, 2012, 41, 1413-1414. | 2.5 | 0 |
| 20 | Earthquake Analysis of Arch Dams: Factors to Be Considered. Journal of Structural Engineering, 2012, 138, 205-214. | 1.7 | 73 |
| 21 | Three-dimensional modal pushover analysis of buildings subjected to two components of ground motion, including its evaluation for tall buildings. Earthquake Engineering and Structural Dynamics, 2011, 40, 789-806. | 2.5 | 119 |
| 22 | Evaluation of three-dimensional modal pushover analysis for unsymmetric-plan buildings subjected to two components of ground motion. Earthquake Engineering and Structural Dynamics, 2011, 40, 1475-1494. | 2.5 | 60 |
| 23 | Earthquake response of arch dams to spatially varying ground motion. Earthquake Engineering and Structural Dynamics, 2010, 39, 887-906. | 2.5 | 14 |
| 24 | Nonlinear Analysis of Ordinary Bridges Crossing Fault-Rupture Zones. Journal of Bridge Engineering, 2009, 14, 216-224. | 1.4 | 35 |
| 25 | Linear Analysis of Ordinary Bridges Crossing Fault-Rupture Zones. Journal of Bridge Engineering, 2009, 14, 203-215. | 1.4 | 31 |
| 26 | Call for Papers: Seismic Protection Techniques. Earthquake Engineering and Structural Dynamics, 2009, 38, 1051-1052. | 2.5 | 0 |
| 27 | Evaluation of the MPA Procedure for Estimating Seismic Demands: RC-SMRF Buildings. Earthquake Spectra, 2008, 24, 827-845. | 1.6 | 24 |
| 28 | Role of Shear Keys in Seismic Behavior of Bridges Crossing Fault-Rupture Zones. Journal of Bridge Engineering, 2008, 13, 398-408. | 1.4 | 72 |
| 29 | Elastic response spectrum: a historical note. Earthquake Engineering and Structural Dynamics, 2007, 36, 3-12. | 2.5 | 72 |
| 30 | Estimating bearing response in symmetric and asymmetric-plan isolated buildings with rocking and torsion. Earthquake Engineering and Structural Dynamics, 2006, 35, 1009-1036. | 2.5 | 9 |
| 31 | Approximate incremental dynamic analysis using the modal pushover analysis procedure. Earthquake Engineering and Structural Dynamics, 2006, 35, 1853-1873. | 2.5 | 133 |
| 32 | Response To: B. Maison's Discussion of "Evaluation of Modal and FEMA Pushover Analyses: SAC Buildings". Earthquake Spectra, 2005, 21, 277-279. | 1.6 | 5 |
| 33 | An improved capacity spectrum method for ATC-40 by Y.-Y. Lin and K.-C. Chang. Earthquake Engineering and Structural Dynamics 2003;32(13):2013-2026. Earthquake Engineering and Structural Dynamics, 2005, 34, 97-97. | 2.5 | 1 |
| 34 | Extension of Modal Pushover Analysis to Compute Member Forces. Earthquake Spectra, 2005, 21, 125-139. | 1.6 | 52 |
| 35 | Nonlinear Model for Lead-Rubber Bearings Including Axial-Load Effects. Journal of Engineering Mechanics - ASCE, 2005, 131, 1270-1278. | 1.6 | 71 |
| 36 | Estimation of Seismic Demands on Isolators Based on Nonlinear Analysis. Journal of Structural Engineering, 2004, 130, 392-402. | 1.7 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Estimating the seismic displacement of friction pendulum isolators based on non-linear response history analysis. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 359-373. | 2.5 | 51 |
| 38 | Estimation of seismic demands on isolators in asymmetric buildings using non-linear analysis. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 395-418. | 2.5 | 13 |
| 39 | A modal pushover analysis procedure to estimate seismic demands for unsymmetric-plan buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 903-927. | 2.5 | 316 |
| 40 | Perfectly matched layers for transient elastodynamics of unbounded domains. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 59, 1039-1074. | 1.5 | 182 |
| 41 | Evaluation of Modal and FEMA Pushover Analyses: Vertically Irregular and Irregular Generic Frames. <i>Earthquake Spectra</i> , 2004, 20, 255-271. | 1.6 | 30 |
| 42 | Evaluation of a Modified MPA Procedure Assuming Higher Modes as Elastic to Estimate Seismic Demands. <i>Earthquake Spectra</i> , 2004, 20, 757-778. | 1.6 | 217 |
| 43 | Evaluation of Modal and FEMA Pushover Analyses: SAC Buildings. <i>Earthquake Spectra</i> , 2004, 20, 225-254. | 1.6 | 115 |
| 44 | Seismic Response of Vertically Irregular Frames: Response History and Modal Pushover Analyses. <i>Journal of Structural Engineering</i> , 2004, 130, 1177-1185. | 1.7 | 122 |
| 45 | Inelastic Deformation Ratios for Design and Evaluation of Structures: Single-Degree-of-Freedom Bilinear Systems. <i>Journal of Structural Engineering</i> , 2004, 130, 1309-1319. | 1.7 | 234 |
| 46 | Evaluation of modal pushover analysis using generic frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 417-442. | 2.5 | 80 |
| 47 | Asymmetric one-storey elastic systems with non-linear viscous and viscoelastic dampers: Earthquake response. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 555-577. | 2.5 | 35 |
| 48 | Asymmetric one-storey elastic systems with non-linear viscous and viscoelastic dampers: Simplified analysis and supplemental damping system design. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 579-596. | 2.5 | 27 |
| 49 | Authors' reply to discussion by Chongmin Song and John P. Wolf of 'numerical evaluation of the damping-solvent extraction method in the frequency domain'. <i>Earthquake Engng. Struct. Dyn.</i> 2002;31(6):1231-1250. <i>Earthquake Engineering and Structural Dynamics</i> , 2003, 32, 1481-1482. | 2.5 | 0 |
| 50 | A modal pushover analysis procedure for estimating seismic demands for buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 561-582. | 2.5 | 945 |
| 51 | Numerical evaluation of the damping-solvent extraction method in the frequency domain. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1231-1250. | 2.5 | 15 |
| 52 | Earthquake response of elastic SDF systems with non-linear fluid viscous dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1623-1642. | 2.5 | 163 |
| 53 | Authors' Reply to Discussion by Stavros A. Anagnostopoulos of 'Evaluation of combination rules for maximum response calculation in multicomponent seismic analysis'. <i>Earthquake Engng Struct. Dyn.</i> 2001;30(9) : 1379-1398. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1755-1756. | 2.5 | 0 |
| 54 | Approximate analysis methods for asymmetric plan base-isolated buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 33-54. | 2.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Evaluation of combination rules for maximum response calculation in multicomponent seismic analysis. Earthquake Engineering and Structural Dynamics, 2001, 30, 1379-1398. | 2.5 | 73 |
| 56 | Understanding and predicting effects of supplemental viscous damping on seismic response of asymmetric one-storey systems. Earthquake Engineering and Structural Dynamics, 2001, 30, 1475-1494. | 2.5 | 45 |
| 57 | Comparing response of SDF systems to near-fault and far-fault earthquake motions in the context of spectral regions. Earthquake Engineering and Structural Dynamics, 2001, 30, 1769-1789. | 2.5 | 287 |
| 58 | Drift Spectrum vs. Modal Analysis of Structural Response to Near-Fault Ground Motions. Earthquake Spectra, 2001, 17, 221-234. | 1.6 | 43 |
| 59 | A macro-element model for inelastic building analysis. Earthquake Engineering and Structural Dynamics, 2000, 29, 1725-1757. | 2.5 | 10 |
| 60 | Critical response of structures to multicomponent earthquake excitation. Earthquake Engineering and Structural Dynamics, 2000, 29, 1759-1778. | 2.5 | 88 |
| 61 | Evaluation of Bridge Abutment Capacity and Stiffness during Earthquakes. Earthquake Spectra, 1997, 13, 1-23. | 1.6 | 57 |
| 62 | Dam-Foundation Rock Interaction Effects in Earthquake Response of Arch Dams. Journal of Structural Engineering, 1996, 122, 528-538. | 1.7 | 28 |
| 63 | Earthquake analysis of arch dams including dam-water-foundation rock interaction. Earthquake Engineering and Structural Dynamics, 1995, 24, 1453-1474. | 2.5 | 76 |
| 64 | Dam-foundation rock interaction effects in frequency-response functions of arch dams. Earthquake Engineering and Structural Dynamics, 1995, 24, 1475-1489. | 2.5 | 41 |
| 65 | Accidental torsion in buildings due to stiffness uncertainty. Earthquake Engineering and Structural Dynamics, 1994, 23, 117-136. | 2.5 | 45 |
| 66 | Accidental torsion in buildings due to base rotational excitation. Earthquake Engineering and Structural Dynamics, 1994, 23, 1003-1021. | 2.5 | 70 |
| 67 | Inelastic seismic response of one-storey, asymmetric-plan systems: Effects of system parameters and yielding. Earthquake Engineering and Structural Dynamics, 1991, 20, 201-222. | 2.5 | 23 |
| 68 | Impedance functions for three-dimensional foundations supported on an infinitely-long canyon of uniform cross-section in a homogeneous half-space. Earthquake Engineering and Structural Dynamics, 1991, 20, 1011-1027. | 2.5 | 20 |
| 69 | Inelastic seismic response of one-storey, asymmetric-plan systems: Effects of stiffness and strength distribution. Earthquake Engineering and Structural Dynamics, 1990, 19, 949-970. | 2.5 | 72 |
| 70 | Earthquake analysis of a class of torsionally-coupled buildings. Earthquake Engineering and Structural Dynamics, 1989, 18, 305-323. | 2.5 | 57 |
| 71 | Earthquake analysis of intake-outlet towers including tower-water-foundation-soil interaction. Earthquake Engineering and Structural Dynamics, 1989, 18, 325-344. | 2.5 | 38 |
| 72 | Earthquake analysis of arch dams including dam-water interaction, reservoir boundary absorption and foundation flexibility. Earthquake Engineering and Structural Dynamics, 1986, 14, 155-184. | 2.5 | 59 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Frequency response functions for arch dams: Hydrodynamic and foundation flexibility effects. Earthquake Engineering and Structural Dynamics, 1986, 14, 769-795. | 2.5 | 44 |
| 74 | Effects of reservoir bottom absorption and dam-water-foundation rock interaction on frequency response functions for concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1985, 13, 13-31. | 2.5 | 85 |
| 75 | Earthquake response of structures with partial uplift on winkler foundation. Earthquake Engineering and Structural Dynamics, 1984, 12, 263-281. | 2.5 | 75 |
| 76 | Earthquake analysis of concrete gravity dams including reservoir bottom absorption and dam-water-foundation rock interaction. Earthquake Engineering and Structural Dynamics, 1984, 12, 663-680. | 2.5 | 136 |
| 77 | Effects of reservoir bottom absorption on earthquake response of concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1983, 11, 809-829. | 2.5 | 78 |
| 78 | Hydrodynamic and foundation interaction effects in frequency response functions for concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1982, 10, 89-106. | 2.5 | 25 |
| 79 | Discussion on a note on the perturbation analysis of the mode shapes of torsionally coupled buildings. Earthquake Engineering and Structural Dynamics, 1982, 10, 175-176. | 2.5 | 2 |
| 80 | Two-dimensional dynamic analysis of concrete gravity and embankment dams including hydrodynamic effects. Earthquake Engineering and Structural Dynamics, 1982, 10, 305-332. | 2.5 | 114 |
| 81 | Hydrodynamic effects in the dynamic response of concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1982, 10, 333-345. | 2.5 | 44 |
| 82 | Hydrodynamic effects in dynamic response of simple arch dams. Earthquake Engineering and Structural Dynamics, 1982, 10, 417-431. | 2.5 | 25 |
| 83 | Earthquake analysis of concrete gravity dams including dam-water-foundation rock interaction. Earthquake Engineering and Structural Dynamics, 1981, 9, 363-383. | 2.5 | 127 |
| 84 | Discussion on paper by W. H. Wittrick and R. W. Horsington. Earthquake Engineering and Structural Dynamics, 1980, 8, 291-293. | 2.5 | 1 |
| 85 | Rocking response of rigid blocks to earthquakes. Earthquake Engineering and Structural Dynamics, 1980, 8, 565-587. | 2.5 | 422 |
| 86 | Discussion on paper by J. A. Gutierrez and A. K. Chopra. Earthquake Engineering and Structural Dynamics, 1979, 7, 193-194. | 2.5 | 1 |
| 87 | Evaluation of simulated ground motions for predicting elastic response of long period structures and inelastic response of structures. Earthquake Engineering and Structural Dynamics, 1979, 7, 383-402. | 2.5 | 7 |
| 88 | A substructure method for earthquake analysis of structures including structure-soil interaction. Earthquake Engineering and Structural Dynamics, 1978, 6, 51-69. | 2.5 | 99 |
| 89 | Elastic earthquake analysis of torsionally coupled multistorey buildings. Earthquake Engineering and Structural Dynamics, 1977, 5, 395-412. | 2.5 | 87 |
| 90 | Effects of Torsional Coupling on Earthquake Forces in Buildings. Journal of the Structural Division, 1977, 103, 805-819. | 0.2 | 67 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | Dynamics of towers surrounded by water. Earthquake Engineering and Structural Dynamics, 1974, 3, 33-49. | 2.5 | 165 |
| 92 | Earthquake response analysis of multistorey buildings including foundation interaction. Earthquake Engineering and Structural Dynamics, 1974, 3, 65-77. | 2.5 | 133 |
| 93 | Earthquake analysis of axisymmetric towers partially submerged in water. Earthquake Engineering and Structural Dynamics, 1974, 3, 233-248. | 2.5 | 28 |
| 94 | Mathematical models for the dynamic analysis of concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1974, 3, 249-258. | 2.5 | 30 |
| 95 | Reply to discussion By T. H. Lee and D. A. Wesley. Earthquake Engineering and Structural Dynamics, 1974, 3, 402-402. | 2.5 | 0 |
| 96 | Effects of stiffness degradation on ductility requirements for multistorey buildings. Earthquake Engineering and Structural Dynamics, 1973, 2, 35-45. | 2.5 | 14 |
| 97 | Earthquake analysis of gravity dams including hydrodynamic interaction. Earthquake Engineering and Structural Dynamics, 1973, 2, 143-160. | 2.5 | 98 |
| 98 | The earthquake experience at koyna dam and stresses in concrete gravity dams. Earthquake Engineering and Structural Dynamics, 1972, 1, 151-164. | 2.5 | 65 |
| 99 | Hydrodynamic pressures and response of gravity dams to vertical earthquake component. Earthquake Engineering and Structural Dynamics, 1972, 1, 325-335. | 2.5 | 28 |