Reference List of Publications on Earthquake Engineering, Structural Dynamics & Seismology

I. Papers. Note that items 1 and 2 below contain a very exhaustive bibliography of Publications (papers and books) for the period prior to 1958. They are a valuable reference source for any earthquake engineering library. Reference 9 is a guide to references pertinent to the seismicity of different regions of the world.

1. Hollis, E.P. -"Bibliography of Engineering Seismology"- Earthquake Engineering Research Institute, Los Angeles, California (1958).

2. Duke, C.M. -"Bibliography of Effects of Soil Conditions on Earthquake Damage"- Earthquake Engineering Research Institute, Los Angeles, California (1958).

3. Duke, C.M. and Feigen, M. - "Symposium on Earthquake and Blast Effects on Structures" - Earthquake Engineering Research Institute, Los Angeles, California (1952).

4. "Proceedings 1st World Conference on Earthquake Engineering" - Earthquake Engineering Research Institute, Los Angeles, California (1956).

5. "Proceedings 2nd World Conference on Earthquake Engineering" - Association for Science Documents Information, Tokyo, Japan (1960).

6. "Proceedings 3rd World Conference on Earthquake Engineering"(1965) TO BE PUBLISHED.

7. "Earthquake Resistant Regulations, A World List" - Association for Science Documents Information, Tokyo, Japan (1963).

8. Hughes, G.T., Locker, J.G. & Stewart, W.D. - "Bibliography of Soil Dynamics and Soil Structure Interaction During Dynamic or Similar Loads". - DR 170, Defense Research Board, Ottawa (1965)

9. Ambraseys, N.N. - "Earthquake Engineering Reference Guide" - Cementation Co. Ltd., London.

10. The papers listed under this item were extracted from material distributed at the III World Conference on Earthquake Engineering and have appeared in the engineering literature during the period 1958-64. These references extend the very extensive and important bibliographies on earthquake engineering noted under items 1 & 2 above. This list is by no means comprehensive; many significant papers must have been inadvertently overlooked and it should not be inferred that papers omitted from this list are considered to be unimportant.

10. Periodical or Sponsor

A.C.I. Journal

Title 59-39, Aug. 1962 - Beck, H. - Contribution to the analysis of coupled shear walls.

55-39, Nov. 1958 - Benjamin, J.R. & Williams, H.A. - Behaviour of one storey R.C. shear walls containing openings.

60-54, Sept.1963 - Bradshaw, R.R. - Tall concrete building in region of high seismicity.

58-14, Sept.1961 - Cardan, B. - Concrete shear walls combined with rigid frames.

58-27, Nov. 1961 - Cossio, R.D. & Rosenblueth, E. - R.C. failures during earthquakes.

56-60, June 1960 - Rosenblueth, E. & Haltz, I. - Elastic analysis of shear walls in tall buildings.

Acta Mechanica Sinica
(Peking, China)

V.4 n.1 Jan. 1960 - Kuo, H.Y. & Kin, S.S. - Effect of earthquakes on dams.

Applied Mechanics Review

V.14 n.12 Dec. 1961 - Rosenblueth, E. - Earthquake resistant design.

A.S.C.E. Journal

E.M.2. April 1961 - Berg, G.V. - Response of multi-storey structures to earthquake.

E.M.2. April,1960 - Bycroft, G.M. - White noise representation of earthquakes.

S.T.4. April 1960 - Clough, R.W. - Dynamic effects of earthquakes.

E.M.4. Oct. 1959 - Housner, G.W. - Behaviour of structures during earthquakes.

E.M.4. Aug. 1963 - Housner, G.W. & Brady, A.G. - Natural periods of vibrations of buildings.

E.M.1. Feb. 1964 - Housner, G.W. & Jennings, P.C. - Generation of artificial earthquakes.

S.T.3. June 1964 - Khan, F.R. & Sbarounis, J.A. - Interaction of shear walls and frames.

E.M.3. Oct. 1961 - Lycan, D.L. & Newmark, N.M. - Effect of structure and foundation interaction.

S.T.2. April 1962 - Neumann, F. - Seismic forces on engineering structures.

S.T.7. July 1960 - Penzien, J. - Dynamic response of elasto-plastic frames.

E.M.3. June 1962 - Rosenblueth, E. & Bustamante, J.I. - Distribution of structural response to earthquakes.

S.T.12.Dec. 1960 - Salvadori, M.G. & Heer, E. - Periods of framed buildings for earthquake analysis.

S.M.1. Feb. 1963 - Seed, H.B. & Clough, R.W. - Earthquake resistance of sloping core dams.

A.S.C.E. Journal (continued)

S.T.2. Feb. 1959 - Tsui, E.Y.W. - A seismic design of structures by rigidity criterion.
S.T.1. Feb. 1965 - Progress Report of the Committee on Research - Survey of current structural research.

A.S.M.E.

Paper 61 - APMW 20, Aug. 1961 - Caughey, T.K. & Stumpf, H.J. - Transient response of dynamic system under random excitation.
Beton i Zhelezobeton n.3, Nov. 1962 - Skeinskii, Yu. M. - Konstruktsii Karkasno-panel nogo doma v seismicheskom Faione. (Construction of Frame-Panelled building in seismic region).

Canterbury, University of, N.Z. -

Nov. 1964 - Croll, J.G. - The problem of aseismic design.
Nov. 1964 - Dakin, R.A. - Structural damping.
Nov. 1964 - Hunt, D.S. - The dynamic behaviour of columns.
Nov. 1963 - Smith, L.D. - Seismic zoning.
Nov. 1963 - Squires, K.E. - Vibration isolation.

Civil Engineering (New York)

V.33 n.12 Dec. 1963 - Kunze, E.W., Fintel, M., & Amehein, J.E. - Skopje Earthquake damage
V.34 n.5 May, 1964 - Rice, E.F. - Alaska Earthquake.

Civil Engineering and Public Works Review (London)

Jan. 1964 - Rosman, R. - Approximate method of analysis of walls of multi-storey buildings.
1954 - Reynolds, H.R. - Effect of vibration on soils.

Colegio de Ingenieros de Venezuela -

Revista n 286 Jan/Mar. 1960 - Rosenblueth, E., Marsal, R.J. & Hiriart, F. - Effects of earthquake of July 28, 1957 in Mexico City and revision of design criteria. (In Spanish).

Concrete and Constructional Engineering

V.58 n.7 July, 1963 - Earthquake resistant building in Jamaica.

Electronics and Control Journal

V.12, n.2. Feb. 1962 - Adams & Morris - Analogue computer for simulation of behaviour of structures during earthquakes.

Engineering (London)

V.187,n.4853 Mar. 13, 1959 - Howells, D.A. - Structures to withstand earthquakes.

Engineering News Record
30th May, 1963 - Arrowhead building aims at beating shock waves.
17th Oct., 1963 - Skopje earthquake damage.
9th April, 1964 - Anchorage earthquake.

Geornale del Genio Civile
V.101 n.6, June 1963 - Lauletta, E. - Behaviour of multi-storey buildings under seismic stress. (In Italian).

Geological Society of America
Reviews in Engineering Geology
V.1. 1962 - Neumann, F. - Engineering seismology.

Indian Concrete Journal
V.36 n.5 May 1962 - Kapila, I.P. & Maini,S.S. - Active pressure exerted by cohesionless materials under earthquake conditions.

Ingenieria (Mexico) - Bustamante, J.I. - Comparative studies of static and dynamic methods of seismic analysis (in Spanish).

Institution of Engineers,(India)
Journal V.44 n.1 pt C1 Sept. 1963 - Krishna, J. - Earthquake resistant design of earth dams.

Institute Technique du Batiment et des Travaux Publics
Annales, V.17 n.194, Feb. 1964 - Despeyroux, J. - Notre experience du comportement des constructions soumises a un ebraulement sismique. (Experience obtained in behaviour of structures subjected to seismic disturbances).

Irrigation and Power (India)
V.19, n.6, June 1962 - Parkash, V.A. - Seismic analysis of earth dams by slip circle method.

Japanese Society of Civil Engineers
Trans. n.92 April 1963 - Okamoto, S., Kato, K., & Hakuno, M. - Seismic force acting on structures underground.
Trans. n.91 March 1963 - Tiedemann, J.B. - Energy level of linear dynamic system under random excitation.

Proceedings of Japan National Symposium on Earthquake Engineering, Tokyo, 1962 - Contains 46 technical papers.

Kyoto University (Japan - Disaster Prevention Research Institute
Bul 68, March 1964 - Kobori, T. & Minai, R. - Aseismic design method of elasto-plastic building structures.
Bul 35, Aug. 1960 - Tanabashi, R. - Safety of structures against earthquakes.
Bul 56, March 1962 - Tanabashi, R., Kobori, T. & Kaneta, K. - Non-linear vibration of structures due to earthquakes.

Mexican Seismic Engineering - Bulletin and Review - Various Authors and Papers.

New Zealand Engineering

V.18, n.4, April 1963 - Shepherd, R. & Wood, J.H. - The Dynamic design of earthquake resistant structures.

V. 16, n.9, Sept. 1961 - Eiby, Frost, Johnston, Edwards, Mair, Murphy and Smith - Earthquake Symposium - see book list, N.Z.I.E.

V.18, n.9, Sept. 1963 - O'Driscoll, R.J. & Shepherd, R. - Dynamic response of multi-storey buildings.

V.18, n.9, Sept. 1963 - Searle, E.J. - Disaster risk from geological causes in Auckland district.

V.18, n.9, Sept. 1963 - Skinner, R.I. - Earthquake resistant design of buildings - research problems.

V.17, n.1. Jan. 1962 - Turner, C.P.O. - Mohaka Bridge; submergence effect on bridge piers under earthquake.

N.A.I.E. Prcc. VXXXII 1946 - Murphy, V.A. - New Zealand earthquake problem in relation to engineering structures.

Noise Control Shock and Vibration

V.7, n.6, Nov/Dec. 1961 - Housner, G.W. - Groundshock problems of earthquakes and explosions.

Revists Chilena de Ingeniesia y Anales del Intituto de Ingenieros

Jung, F.A. - Distribution vertical de fuerzas sismicas (Vertical distribution of seismic forces).

Revista del IDIEM

V.1. n.2, June 1962 - Arias, A. & Husid, R. - Proyecto de norma calculo antisismico de edificios (Proposed standards on aseismic design of buildings in Chile).

Roorkee Central Bldg. Res. Inst. (India)

Bul v.1, n.2, Oct. 1953 - Billig, K. - Earthquake resisting building.

Ser. 1. Feb. 1959 - Seminar - 21 authors - Earthquake engineering.

1961 - 2nd Symposium - Earthquake engineering.

Russian, Papers in - See book list; E.E.R.I. "Translations on earthquake engineering from Russian."

Seismological Society of America

Bul V.53, n.2, Feb. 1963 - Blume, J.A. - Structural-dynamic analysis of steel plant structures, etc.

V.53, n.2. - Cloud, W.K. - Period measurements of structures in Chile.

V.52,n.3, July 1962 - Clough, R.W. - Earthquake analysis by response spectrum superposition.

V.53, n.2. - Clough, R.W. & Jenschke, V.A. - Effect of diagonal bracing on earthquake performance.

Seismological Society of America (continued)

Bul. V.53, n.2. July, 1962 - Duke, C.M. & Leeds, D.J. - Response of soils, foundations and earth structures.

V.54, n.1, Feb. 1964 - Goldberg, J.E., Bogdanoff, J.L., & Sharpe, D.R. - Response of simple non-linear systems.

V.53, n.2. - Housner, G.W. - Behaviour of inverted pendulum structures during earthquakes.

V.53, n.2. - Housner, G.W. - Dynamic behaviour of water tanks.

V.53, n.2. - Hudson, D.E. - Measurement of ground motion of destructive earthquakes.

V.54, n.1. - Hudson, D.E., Keightley, W.O. & Nielson, N.N. - New method for measurement of natural periods of buildings.

V.52, n.2. Apr. 1962 - Merchant, H.C. & Hudson, D.E. - Mode superposition in multi-degree of freedom systems.

V.54, n.1. Feb. 1964 - Rubinstein, M.F. - Effect of axial deformation on periods of a tall building.

V.53, n.2. - Steinbrugge, K.V. & Rodrigo Flores, A. - The Chilean earthquakes of May 1960: a structural engineering viewpoint.

V.54, n.4. Aug. 1964 - Rubinstein, M.F. - Determination of first n modes of tall building.

Tecnica (Portugal)

V 37, n.321, Oct. 1962 - Madeira Costa, J.M. - Consideracoes acerca dos metados de dimensionamento de estruturas autisismicas. (Design methods of earthquake resistant structures).

V.38, n.326, Mar. 1963 - Machado - Fenomenos plasticos nas vibracoes sismicas. (Plastic phenomena in seismic vibrations.)

Tokyo University, Earthquake Research Institute

Bul. V.38, pt.1, Mar. 1960 - Malumoto, T. - Spectral structure of earthquake waves.

V.39, pt.1, Mar. 1961 - Kanai, K. - Empirical formula for spectrum of strong earthquake.

V. 40, pt.1, Mar. 1962 - Kanai, K. - Spectra of strong earthquakes.

V. 40, pt.4, Dec. 1962 - Kanai, K. - Predominent period of earthquake motions.

V.41, pt.1, Mar. 1963 - Kanai, K. & Morishita, T. - Relation between earthquake damage and nature of ground.

V.39, pt.1, Mar. 1961 - Kanai, K. & Tanaka, T. - On microtremors, for determining seismic force coefficients.

V.41, pt.4, Dec. 1963 - Kanai, K. & Yoshizawa, S. - Some new problems of seismic vibrations of structures.

V.41, pt.1, Mar. 1963 - Kanai, K., Yoshizawa, S. & Suzuki, T. - Empirical formula for spectrum of strong earthquake motions.

V. 40, pt.2, June 1962 - Tanaka, T. - Instrument for brief measurement of natural period of a building.

V.41, pt.1, Mar. 1963 - Tanaka, T. & Morishita, T. - Microtremor measurement in disaster area of Nagaoka earthquake.

Trend in Engineering
V.12, n.3, July, 1960 - Neumann, F. - Lateral force formula on seismological concepts.

U.S.S.R.- Papers in Russian - See book list; E.E.R.I. "Translations on earthquake engineering from Russian."

V.D.I. Zeitscheift (Düsseldorf)
V.102,n.26, 11 Sept. 1960 - Ambraseys, N.N. - Uber die Berechnung von erdbebensicheren erddaemmen. (Design calculation of earthquake resistant earth dams).

II. Books & Pamphlets - (This list is not intended to represent a complete list of texts on the subject.)

1. Anonymous. "Uniform Building Code (1964) - Vol. 1, Int. Conference of Building Officials, Pasadena.

2. Anonymous. "Recommended Lateral Force Requirements and Commentary (1963)" - Struc. Engrs. Assoc. of N. Calif., 417 Market, San Francisco, Calif.

3. Barton, M.V. (Editor) - "Shock and Structural Response" - A.S.M.E., N.Y., (1960).

4. Beles, A., Ifrim, M. - "Elements de Seismologie Inginereasca" - Editura Tehnica, Bucharest (1962).

5. Biggs, J.M. - "Introduction to Structural Dynamics" - McGraw-Hill (1964).

6. Bishop, R.E.D. and Johnson, D.C. - "Mechanics of Vibration" - Cambridge University Press, (1960).

7. Blume, J.A. - Newmark, N.M. & Corning, L.H. - "Design of Multistory Reinforced Concrete Buildings for Earthquake Motions" - Portland Cement Association, (1961).

8. Bronson, W. - "The Earth Shook, The Sky Burned" - Doubleday & Co.Inc.

9. Church, A.H. - "Mechanical Vibrations", end Ed., J. Wiley & Sons (1963).

10. Crandall, S.H. and Mark, W.D. - "Random Vibrations in Mechanical Systems" - Academic Press, (1963)

11. Crede, C.E., - "Shock and Vibration Concepts in Engineering Design" - Prentice-Hall Inc., (1965).

12. Den Hartog, J.P. - "Mechanical Vibrations" - 4th Ed. McGraw-Hill (1956).

Books & Pamphlets (continued)

13. Earthquake Engineering Research Institute
(a) "Translations in Earthquake Engineering";
(b)"Inspectors Manual for Earthquake Resistant Construction";
(c) "Earthquake and Fire";
(d) "Earthquake Damage Survey Guide"; - E.E.R.I., Los Angeles, Calif.

14. Freeman, J.R. - "Earthquake Damage and Earthquake Insurance, McGraw-Hill, (1932).

15. Gutenberg, B., & Richter, C.F. - "Seismicity of the Earth" - Princeton University Press ,(1954).

16. Hansen, H.M. & Chenea, P.F. - "Mechanics of Vibrations" - J. Wiley & Sons, (1952).

17. Harris, C.H. & Crede, C.E. (Editors) - "Shock and Vibration Handbook" - McGraw-Hill (1961).

18. Hodgson, J.H. - "Earthquakes and Earth Structures" - Prentice-Hall (1964).

19. Housner, G.W., & Hudson, D.E. - "Applied Mechanics--Dynamics" - Van Nostrand Co. Ltd., (1959).

20. Hurty, W.C. & Rubinstein, M.F. - "Dynamics of Structures" - Prentice-Hall Inc., (1964).

21. Iacopi, R. - "Earthquake Country" - Lane Book Co. (1964).

22. Imamura, A. - "Theoretical and Applied Seismology" - Kajimo Inst. Publishing Co., Tokyo.

23. Jacobsen, L.S. & Ayre, R.S. - "Engineering Vibrations" - McGraw-Hill (1958).

24. Kármán, T., & Biot, M.A. - "Mathematical Methods in Engineering" - McGraw-Hill (1940).

25. Morrow, C.T. - "Shock and Vibration Engineering" - J. Wiley & Sons (1962).

26. Myklestad, N.O. - "Fundamentals of Vibration Analysis" - McGraw-Hill (1956).

27. Norris, C.H. et al - "Structural Design for Dynamic Loads" - McGraw-Hill, (1959).

Books and Pamphlets (continued)

28. Nowacki, W. - "Dynamics of Elastic Systems" - J. Wiley & Sons (1963).

29. Pestel, E.C. and Leckie, F.A. - "Matrix Methods in Elasto-mechanics" - McGraw-Hill (1963).

30. Prentis, J.M. and Leckie, F.A. - "Mechanical Vibrations - An Introduction to Matrix Methods" - Longmans Canada Ltd. (1963).

31. Raleigh, - "Theory of Sound" - Dover Publications (1945).

32. Richter, C.R. - "Elementary Seismology" - Freeman & Co. (1958).

33. Rogers, G.L. - "Dynamics of Framed Structures" - J. Wiley & Sons, (1959).

34. Ruzicka, J.E., (Editor) - "Structural Damping" - A.S.M.E., N.Y., (1959).

35. Thomson, W.T. - "Vibration Theory and Applications" - Prentice-Hall Inc., (1965).

36. Timoshenko, S.P. - "Vibration Problems in Engineering" - 3rd Ed. - D. Van Nostrand Co. Inc., (1955).

37. Tong, K.N. - "Theory of Mechanical Vibration" - J. Wiley & Sons (1960).

38. Tse, F.S., Morse, T.E. and Hinkle, R.T. - "Mechanical Vibrations" - Allyn and Bacon, (1963).

39. Van Santen, G.W. - "Mechanical Vibration" - 3rd Ed., Philips Technical Library, Eindhoven, (1960).

40. Worley, W.J. (Editor) - "Experimental Techniques in Shock and Vibration" - A.S.M.E. (1962.