ACKNOWLEDGEMENTS

We are indebted to Ms. E. Novikova for her numerous contributions to this work. She tested many of our new routines and suggested numerous improvements to increase the efficiency of operator interaction during TV program. Ms. Novikova and Dr. Todorovska critically read the manuscript and offered many useful suggestions and improvements. For all these contributions, we are most grateful.

REFERENCES

Alford, J.L., G.W. Housner and R. R. Martel (1951). Spectrum Analysis of Strong Motion Earthquakes. EERL, Calif. Inst. of Tech., Pasadena, California.

Amin, M., and A.H.S. Ang (1966). A Non-Stationary Stochastic Model for Strong- Motion Earthquakes. Structural Research Series No. 306, Univ. of Illinois, Urbana, Illinois.

Anders, E.B., J. Johnson, A.D. Lasaine, P.W. Spikes and J.T. Taylor (1964). Digital Filters. NASA Contr. Rep. CR-136, USA.

Berg, G.V. (1963). A Study of Error in Response Spectrum Analysis, Primeras Jornadas Chilenas de Sismologia and Ingenieria Antisismica, Vol. I. Asociacion Chilena de Sismologia and Ingenieria Antisismica, Santiago, Chile.

Biot, M.A. (1941). Mechanical Analyzer for the Prediction of Earthquake Stresses. Bull. Seism. Soc. Amer., **31**, 151-171.

Brady, A.G. (1966). Studies of Response to Earthquake Ground Motion. EERL, Calif. Inst. of Tech., Pasadena, California.

Edwards, A.T. and T.D. Northwood (1959). Experimental Blasting Studies on Structures. Ottawa: Hydro-Electric Power Commission of Ontario and National Research Council, Canada.

Gold, B. and C.M. Rader (1975). Digital Processing of Signals. McGraw Hill, New York, New York.

Hamming, R.W. (1962). Numerical Methods for Scientists and Engineers. McGraw-Hill, New York, New York.

Hamming, R.W. (1977). Digital Filters. Prentice Hall, New Jersey.

Housner, G.W. (1947). Ground Displacement Computed from Strong-Motion Accelerograms. Bull. Seism. Soc. Amer., **37**, 299-305.

Hudson, D.E. (1963). The measurement of Ground Motion of Destructive Earthquakes. Bull. Seism. Soc. Amer., **53(2)**, 419-437.

Hudson, D.E. (1970). Ground Motion Measurements, Earthquake Engineering, R.L. Wiegel Coordinating Editor, Chapter 6. Prentice Hall, Inc., Englewood Cliffs, New Jersey.

Hudson, D.E. (1984). Golden Anniversary Workshop on Strong Motion Seismology, March 30-31, 1983, Dept. of Civil Eng., Univ. of Southern California, Los Angeles, California.

Hudson, D.E., N.C. Nigam and M.D. Trifunac (1969). Analysis of Strong Motion Accelerograph Records. Fourth World Conf. on Earthquake Eng., Santiago, Chile.

Hudson, D.E., M.D. Trifunac, A.G. Brady and A. Vijayaraghavan (1971), Strong Motion Earthquake Accelerograms, II, Corrected Acceleration and Integrated Velocity and Displacement Curves. EERL 71-50, Calif. Inst. of Tech., Pasadena, California.

Hudson, D.E., M.D. Trifunac and A.G. Brady (1972). Analyses of Strong Motion Earthquake Accelerograms. Response Spectra, Vol. III, Part A, EERL 72-80, Calif. Inst. of Tech., Pasadena, California.

Lee, V.W. (1984). A New Fast Algorithm for the Calculation of Response of a Single-Degree-of-Freedom System to Arbitrary Load in Time. Int. J. Soil Dynamics and Earthquake Eng., **3(4)**, 191-199.

Lee, V.W. (1989). Recent Developments on Data Processing of Strong-Motion Accelerograms: Interpolation of Uniform and Non-Uniform Sampling from Digitized Data. Int. J. Soil Dynamics and Earthquake Eng., **8(4)**, 202-212.

Lee, V.W. (1990). Efficient Algorithm for Computing Displacement, Velocity, and Acceleration Responses of an Oscillator for arbitrary Ground Motion. Int. J. Soil Dynamics and Earthquake Eng., **9(6)**, 288-300.

Lee, V.W. and M.D. Trifunac (1982). EQINFOS (The strong-Motion Earthquake Data Information System). Dept. of Civil Eng., Report No. CE 82-01 , Univ. of Southern California, Los Angeles, California.

Lee, V.W. and M.D. Trifunac (1984). Current Developments in Data Processing of Strong Motion Accelerograms. Report No. CE 84-01, Dept. of Civil Eng., Univ. Southern California, Los Angeles California.

Neumann, F. (1958). Damaging Earthquake and Blast Vibrations, The Trend in Engineering, Seattle: University of Washington.

Neumann, F. (1959). Seismological Aspects of the Earthquake Engineering Problem. Proc. of the 3rd Northwest Conference of Structural Engineering, State College of Washington.

Nigam, N.C. and Jennings, P.C., (1969). Calculation of Response Spectra from Strong-Motion Earthquake Records. Bull. Seism. Soc. Amer., **59**, 909-922.

Oetken, G., T.W. Parks and H.W. Schyster (1975). New Results in the Design of Digital Interpolators. IEEE Trans. on Acoustics, Speech and Signal Processing, Vol. ASSP-23, No. 3, 301-309.

Oppenheim, A.V. and R.W. Schafer (1975). Digital Signal Processing. Prentice Hall, New Jersey.

Papoulis, A. (1977). Signal Analysis. McGraw Hill, New York.

Rabiner, L.R. and R.E. Chochiere (1975). A Novel Implementation for Narrow- Band FIR Digital Filters. IEEE Trans. on Acoustics, Speech and Signal Processing, Vol. ASSP-23, No. 5, 457-464.

Rabiner, L.R. and B. Gold (1975). Theory and Application of Digital Signal Processing. Prentice Hall, New Jersey.

Schiff, A., and J.L. Bogdanof (1967). Analysis of Current Methods of Interpreting Strong Motion Accelerograms. Bull. Seism. Soc. Amer., **57(5)**, 857-874.

Stearns, S.D. (1975). Digital Signal Analysis. Hayden Book Company, New Jersey.

Sunder, S.S. (1980). On the Standard Processing of Strong-Motion Earthquake Signals. Ph.D. Thesis, Research Report R80-38, School of Engineering, Mass. Inst. of Tech., Cambridge, Mass.

Trifunac, M.D. (1971). Zero Baseline Correction of Strong-Motion Accelerograms. Bull. Seism. Soc. Amer., **61**, 1201-1211 .

Trifunac, M.D. (1972). A Note on Correction of Strong- Motion Accelerograms for Instrument Response. Bull. Seism. Soc. Amer., **62**, 401-409.

Trifunac, M.D. (1973). Analysis of Strong Earthquake Ground Motion for Prediction of Response Spectra. Int. J. of Earthquake Eng. and Struct. Dynamics, **2(1)**, 59-69.

Trifunac, M.D. (1977). Uniformly Processed Strong Earthquake Ground Accelerations in the Western United States of America for the Period from 1933 to 1971 : Pseudo

Relative Velocity Spectra and Processing Noise. Dept. of Civil Eng., Report No. CE 77-04, Univ. of Southern California, Los Angeles, California.

Trifunac, M.D. and J.G. Anderson (1978). Preliminary Models for Scaling Relative Velocity Spectra. Dept. of Civil Eng. Report No. 78-05, Univ. Southern California, Los Angeles, California.

Trifunac, M.D. and D.E. Hudson (1970). Laboratory Evaluation and Instrument Corrections of Strong Motion Accelerographs. EERL 70-04, Calif. Inst. of Tech., Pasadena, California.

Trifunac, M.D., and V.W. Lee (1973). Routine Computer Processing of Strong Motion Accelerograms. Earthquake Eng. Res. Lab., EERl 73-03, Calif. Inst. of Tech., Pasadena, California.

Trifunac, M.D., and V.W. Lee (1974). A Note on the Accuracy of Computed Ground Displacements from Strong Motion Accelerograms. Bull. Seism. Soc. Amer., **64**, 1209-1219.

Trifunac, M.D., and V.W. Lee (1978). Uniformly Processed Strong Earthquake Ground Accelerations in the Western United States of America for the Period from 1933 to 1971: Corrected Acceleration, Velocity and Displacement Curves. Dept. of Civil Engr., Report No. CE 78-01, Univ. of Southern California, Los Angeles, California.

Trifunac, M.D. and V.W. Lee (1979). Automatic Digitization and Processing of Strong Motion Accelerograms, I and II. Dept. of Civil Eng., Report No. 79-15, Univ. of Southern California, Los Angeles, California.

Trifunac, M.D., F.E. Udwadia and A.G. Brady (1971). High Frequency Errors and Instrument Corrections of Strong Motion Accelerograms. Earthquake Eng. Res. Lab., EERL 71-05, Calif. Inst. of Tech., Pasadena.

Trifunac, M.D., F.E. Udwadia and A.G. Brady (1973). Analysis of Errors in Digitized Strong Motion Accelerograms. Bull. Seism. Soc. Amer., **63**, 157-187.