

Bibliography of Seismology

July to December, 1948

Geophysicists will be interested to know that Macelwane and Sohon's INTRODUCTION TO THEORETICAL SEISMOLOGY. PART I. GEODYNAMICS by J. B. Macelwane. PART II. SEISMOMETRY by F. W. Sohon, which has been out of print for several years, is being reproduced photographically by Saint Louis University. Both parts are available in cloth binding at the same prices as were formerly charged by John Wiley and Son, that is, Part I \$6.50, and Part II \$3.75. Please address inquiries to: Saint Louis University Book Stores, 221 North Grand Boulevard, Saint Louis 3, Missouri, U.S.A.

6858. AGAMENNONE, Giovanni, "Studio macrosismico del terremoto del Cansiglio (Fruili) del 18 ottobre 1936", *Geofisica Pura e Applicata*, Vol. 9, Fasc. 1-2, 19-29, bib., Milan, 1946.

6859. ALIVERTI, Giuseppina, "Inverni Freddi, Rigidi, Rigidissimi, e Inverni Caldi, Miti, Mitissimi", *Annali di Geofisica*, Vol. 1, No. 1, 109-115, 1 fig., 6 tab., Rome, Jan., 1948.

6860. APPLIED MECHANICS REVIEWS.

The above monthly periodical was initiated in January, 1948, as a review of the "world literature in applied mechanics". Each issue is divided into four main headings: general, mechanics of solids, mechanics of fluids, and heat. Of interest to seismologists are the reviews of seismological literature appearing under the heading of "mechanics of solids". Those articles appearing in this *Bibliography* which have been taken from the *Applied Mechanics Reviews* will have that periodical as the collaborator.

The periodical is published in Chicago by the American Society of Mechanical Engineers.

6861. ARONS, A. B., and YENNIE, D. R., "Energy Partition in Underwater Explosion Phenomena", *Reviews of Modern Physics*, Vol. 20, No. 3, 519-536, 11 fig., 5 tab., Lancaster, July, 1948.

6862. ASSOCIATION DE SÉISMOLOGIE.

The following are the papers presented at the meeting of the Union Géodésique et Géophysique Internationale at Oslo from the 17th to the 28th of August, 1948. Those papers not appearing in other publications are listed in this issue of the *Bibliography* under the names of their respective authors.

- (1) "On the Present Requirements in the Analysis of Seismograms" by Eijo Vesanan.
- (2) "Report of Seismic Work on the North German Explosions, 1946-47" by the British National Committee for Geodesy and Geophysics.
- (3) "Calibration of a High Magnification Seismometer" by Frank Neumann.
- (4) "Les ondes séismiques des explosions d'Haslach (Forêt-Noire)" by J. P. Rothé, E. Peterschmitt, and P. Stahl.
- (5) "Prospecting of the Underground Structure of the New Volcano 'Showashinzan' by the Seismic Method" by Yoshio Kato and Rikii Shoji.
- (6) "Seismological Work of the Dominion Observatory, Ottawa, 1939-1948" by E. A. Hodgson.
- (7) "Études sur l'agitation microséismique" by J. Coulomb.

Domino Openings
Outline
Volume 1
by
John N. Gandy
and
John C. Sauer

- (8) "Les tremblements de terre en Slovaquie et Ancienne Russie Subcarpathique 1923-1938" by A. Zatopek.
- (9) "Note préliminaire sur l'agitation microsismique au Maroc" by J. Debrach.
- (10) "The Propagation of East Alpine Earthquakes in the Bohemian Mass" by A. Zatopek.
- (11) "Séismes d'origine proche, dans les régions à tectoniques superposées" by Nicolas Oulianoff.
- (12) "Les mouvements séismiques dans le domaine Adriatique" by J. Mihailovic.
- (13) "Les catastrophes séismiques du Littoral de Doubrovnik (Raguse)" by J. Mihailovic.
- (14) "A Seismic Survey in the Canadian Shield" by John H. Hodgson.
- (15) "Variability of Vibrations from Quarry Blasts" by J. B. Macelwane, S.J., F. Robertson, R. R. Heinrich, and V. J. Blum, S.J.
- (16) "Progress Report on Studies of Deep Crustal Layers by Explosive Shots" by M. A. Tuve, R. W. Goranson, J. W. Greig, and W. J. Rooney.
- (17) "Comportamento delle onde di Rayleigh in un mezzo fermo-elastico indefinito" by Pietro Caloi.
- (18) "Vélocité apparente de propagation des ondes sismiques longitudinales" by Juan Manuel Lopez de Azcona.
- (19) "Séismes et anomalies magnétiques" by J. P. Rothé.
- (20) "A Proposed Seismic Sea-wave Warning System" by E. B. Roberts.
- (21) "History and Applications of the Magnitude Scale" by C. F. Richter.
- (22) "Presidential Address" by Robert Stonely.
- (23) "Mass Analysis of Microseismic Readings and Barometric Lows" by Leonard M. Murphy.
- (24) "Microseisms at Harvard" by L. Don Leet.
- (25) "The Frequency Analysis of Seismograph Records" by M. J. Tucker and G. Collins.
- (26) "The Generation of Microseisms by Sea-waves" by M. S. Longuet-Higgins.
- (27) "The Correlation between Microseisms and Sea-waves" by J. Darbyshire.
- (28) "On the Relation between Sea-waves and Microseisms" by J. G. Scholte.
- (29) "Microseisms at Corpus Christi" by Vincent F. Jennemann.
- (30) "Investigation of the Nature and Origin of Microseisms of Frequency Two to Three Cycles per Second at Florissant, Missouri, under Contract between Saint Louis University and the U.S.A. Office of Naval Research" by James B. Macelwane, S.J., F. Robertson, J. A. Volk, and J. E. Ramirez, S.J.
- (31) "Microseisms: Correlation of Microseisms and Meteorological Data" by E. Gherzi, S.J.
- (32) "A Geophysical Theory of the Ice Ages" by Ingolf Sestoft.

6863. ASTANOVICH, I. S., "The June 30, 1908, Earthquake in the Yenisey Gold Tayga in Connection with the Fall of the Tungus Meteorite", *Prrioda*, No. 1, Leningrad, Jan., 1948.

6864. ATWATER, Gordon, "The Discovery History of the University Oil Field, East Baton Rouge Parish, Louisiana", *Geophysics*, Vol. 13, No. 3, 371-386, 13 fig., Menasha, July, 1948.

— AYDINOGLU, Mustafa, "Energy of Earthquakes" (abstract), Geological Society of America. See No. 6899 of this list.

6865. BÉLA, Simon,
- (1) "Rapport sur l'activité de l'Institut national séismologique de Hongrie pendant l'année 1945", *Az Országos Földrengésvizsgáló Intézet Kiadványai*, 14 pp., Budapest, 1948.
 - (2) "Rapport sur l'activité de l'Institut national séismologique de Hongrie pendant l'année 1946", *Ibid.*, 8 pp.
6866. BÉLA, Simon,
- (1) "Sepsiszentgyörgy Földrengései és az Altaluk Okozott Károk Ellen Védekezes", *Az Országos Földrengésvizsgáló Intézet Kiadványai*, Series C:5, 33 pp., 16 fig., 34 tab., 2 maps, French abstract, Budapest, 1946.
 - (2) "Rapport sur l'activité de l'Institut national séismologique de Hongrie en 1947", *Ibid.*, 15 pp., bib., French abstract, Budapest, 1948.
6867. BENIOFF, Hugo, "Seismological Instruments Developed at C.I.T.", *Engineering and Science Monthly*, Vol. 11, No. 2, 24-25, 31, 4 fig., New York, Feb., 1948.
- BENIOFF, Hugo, "Earthquakes and Rock Creep" (abstract), Geological Society of America. See No. 6899 of this list.
- BIRKENHAUER, H. F., S.J., and STECHSCHULTE, V. C., S.J., "An Instrumental Study of the Ohio Earthquakes of March 1937" (abstract), *Earthquake Notes*. See No. 6963 of this list.
- BLEDSOE, J. D., CLARK, R. D. M., MACELWANE, J. B., S.J., BROOKS, E. M., HEINRICH, R. R., and RAMIREZ, J. E., S.J., "Investigation of the Nature and Origin of Micro-oscillations in the Atmosphere on Contract with the U.S.A. Office of Naval Research". See No. 6936 of this list.
- BLUM, V. J., S.J., MACELWANE, J. B., S.J., ROBERTSON, F., and HEINRICH, R. R., "The Variability of Vibrations from Quarry Blasts". See No. 6937 of this list.
- BLUM, V. J., S.J., MACELWANE, J. B., S.J., ROBERTSON, F., and HEINRICH, R. R., "Variability of Vibrations from Quarry Blasts", Association de Séismologie. See No. 6862 of this list.
- BLUMBERG, Roland K., "A New Displacement Seismograph" (abstract), *Earthquake Notes*. See No. 6963 of this list.
6868. BONDI, H., "Review of Cosmology", *Monthly Notices of the Royal Astronomical Society*, Vol. 108, No. 1, 104-120, bib., London, 1948.
6869. BONI, Alfredo, "I terremoti dell'Appennino Vogherese-Tortonese e la Geologia della regione", *Geofisica Pura e Applicata*, Vol. 10, Fasc. 3-4, 114-143, 9 fig., 10 tab., bib., Milan, 1947.
6870. BOUŠKA, Jan, "O Dynamických Účincích Vychodoalpských Zemětřesení na Uzemí Velké Prahy", *Veröffentlichungen des Instituts für Geophysik in Prag, Publikace Geofysikálního Ustavu v Praze*, Spezialarbeit No. 1, 9 pp., 3 fig., bib., Prague, 1940.
6871. BRANT, A. A., "Some Limiting Factors and Problems of Mining and Geophysics", *Geophysics*, Vol. 13, No. 4, 556-581, 1 fig., bib., Menasha, Oct., 1948.

- BRITISH NATIONAL COMMITTEE FOR GEODESY AND GEOPHYSICS. "Report of Seismic Work on the North German Explosions, 1946-47", Association de Séismologie. See No. 6862 of this list.
- BROOKS, E. M., HEINRICH, R. R., RAMIREZ, J. E., S.J., BLEDSOE, J. D., CLARK, R. D. M., MACELWANE, J. B., S.J., "Investigation of the Nature and Origin of Micro-oscillations in the Atmosphere on Contract with the U.S.A. Office of Naval research". See No. 6936 of this list.
- BUCHER, Walter H., "Fault Patterns and Fault Movements" (abstract), Geological Society of America. See No. 6898 of this list.
- 6872. BULLARD, E. C., "The Secular Changes in the Earth's Magnetic Field", *Monthly Notices of the Royal Astronomical Society*, Geophysical Supplement, Vol 5, No. 7, 248-257, London, July, 1948.
- 6873. BUWALDA, John P., "Geologic Faulting in Southern California", *Engineering and Science Monthly*, Vol. 11, No. 2, 15-18, 3 fig., New York, Feb., 1948.
- BYERLY, Perry, and MEI, Alexis I., S.J., "Amplitude of P Waves" (abstract), Geological Society of America. See No. 6899 of this list.
- BYERLY, Perry, and ROBINSON, Harry B., "Earthquake Swarm in Lassen Volcanic National Park". See No. 6969 of this list.
- 6874. CALOI, P., "Le Sesse del Lago di Garda, Part 1 Sesse che Interessano l'Intero Lago", *Annali di Geofisica*, Vol. 1, No. 1, 24-48, 4 fig., 3 tab., bib., Rome, Jan., 1948.
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- 6875. CALOI, P., "Sull'Origine delle onde Superficiali Associate alle Onde 'S, SS, SSS'", *Annali di Geofisica*, Vol. 1, No. 3, 350-353, 2 fig., bib., Rome, July, 1948.
- CALOI, Pietro, "Comportamento delle onde di Rayleigh in un mezzo fermo-elastico indefinito", Association de Séismologie. See No. 6862 of this list.
- 6876. CALOI, P., and LoSURDO, A., "Nuovo Smorzatore per I Sismografi Tipo Wiechert", *Annali di Geofisica*, Vol 1, No. 2, 203-206, 5 fig., Rome, April, 1948.
- 6877. CALOI, P., LoSURDO, A., and PERONACI, F., "La Determinazione dell' Accelerazione Massima nei Fenomeni Macrosismici", *Annali di Geofisica*, Vol. 1, No. 3, 315-323, 8 fig., Rome, July, 1948.
- 6878. CALOI, P., LoSURDO, A., and PONTE, G., "Agitazioni Microsismiche Originate da Attività Vulcanica", *Annali di Geofisica*, Vol. 1, No. 1, 5-9, 3 fig., bib., Rome, Jan., 1948.
- 6879. CALOI, P., and PERONACI, F., "Il Terremoto del Turkestan del 2 Novembre 1946", *Annali di Geofisica*, Vol. 1, No. 2, 246-252, 1 fig., 3 tab., bib., Rome, April, 1948.
- 6880. CANADIAN GEOPHYSICAL BULLETIN.
"Canadian Geophysical Bulletin", Vol. 2, No. 1, 58 pp., Ottawa, Jan.-Mar., 1948.
- CARDER, D. S., "Travel Times in the Lake Mead Region, Arizona and Nevada" (abstract), *Earthquake Notes*. See No. 6963 of this list.

6881. CARDER, D. S., "Seismic Investigation of Large Explosions", *Journal of the Coast and Geodetic Survey*, No. 1, 71-73, Washington, Jan., 1948.
6882. CARDER, D. S., and SMALL, J. B., "Level Divergences, Seismic Activity, and Reservoir Loading in the Lake Mead Area, Nevada and Arizona", *Transactions, American Geophysical Union*, Vol. 29, No. 6, 767-771, 8 fig., bib., Washington, Dec., 1948.
- CARDER, D. S., and WERNER, F. H., "Seismograph Station near Hungry Horse Dam, Montana" (abstract), Geological Society of America. See No. 6899 of this list.
6883. CHRZASZCZ, Roman Karol "Über die Elektromagnetische Energiespeisung der Favarger-Sekundäruhr im Geodätischen Institut der Eidgenössischen Technischen Hochschule Zürich Ein Problem der Erzwungenen Schwingung", *Mitteilungen aus dem Geodätischen Institut*, No. 3, 36 pp., 17 fig., 9 fig., bib., Zurich, 1948.
6884. CIALDEA, Renato, "Registrazione delle Onde Longitudinali di Breve Periodo", *Annali di Geofisica*, Vol. 1, No. 2, 207-213, 4 fig., Rome, April, 1948.
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6885. COLE, Robert H., "Underwater Explosions", Princeton University Press, ix + 437 pp., illustrated. Price \$7.50. Princeton, 1948.
A review of the above book by John H. Trimmer may be found on p. 750 of *Science* (No. 2818, Vol. 108, Dec. 31, 1948).
- COLLINS, G., and TUCKER, M. J., "The Frequency Analysis of Seismograph Records", Association de Séismologie. See No. 6862 of this list.
6886. COSTER, H. P., and GERRARD, J. A. F., "A Seismic Investigation of the History of the River Rheidol in Cardiganshire", *Geological Magazine*, Vol. 85, No. 6, 360-368, 6 fig., bib.. London, Nov.-Dec., 1947.
- COULOMB, J., "Etudes sur l'agitation microséismique", Association de Séismologie. See No. 6862 of this list.
- DARBYSHIRE, J., "The Correlation between Microseisms and Sea-waves", Association de Séismologie. See No. 6862 of this list.
- DEBRACH, J., "Note préliminaire sur l'agitation microséismique au Maroc", Association de Séismologie. See No. 6862 of this list.
6887. DE INGENIEUR IN NEDERLANDSCH-INDIË.
"Eenige beschouwingen over het gevaar van aardbevingen voor bouwconstructies (Some Considerations Concerning the Danger of Earthquakes on Building Constructions)", *De Ingenieur in Nederlandsche-Indië*, Vol. 2, No. 7, 11-15, Batavia, July, 1935.
J. F. S.

- DIX, C. Hewitt,
 (1) "Difficulties in the Accepted Theories of Seismic Waves Propagation" (abstract), Geological Society of America.
 (2) "Use of Large Computing Machines in Seismology" (abstract), Geological Society of America. See No. 6899 of this list.
- DOAK, J. B., ENGLAND, J. L., TUVE, M. A., GORANSON, R. W., GREIG, J. W., and ROONEY, W. J., "Studies of Deep Crustal Layers by Explosive Shots". See No. 6984 of this list.
6888. DOWNEY, Joseph V., S.J., "The Rev. Armand W. Forstall, S.J." (obituary), *Bulletin, Seismological Society of America*, Vol. 38, No. 3, p. 233, Berkeley, July, 1948.
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6890. ECKHARDT, E. A., "Geophysical Activity in the Oil Industry in the United States in 1947", *Geophysics*, Vol. 13, No. 4, 529-534, 4 fig., Menasha, Oct., 1948.
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- ENGLE, H. M., "Trend of Engineering Design Since the Long Beach Shock of March 10, 1933" (abstract), Geological Society of America. See No. 6899 of this list.
6891. EPINAT'YEVA, A. M., "Average Speed of Propagation of Elastic Waves under Conditions in the East Apsheron Region", *Izvestiia Akademii Nauk SSSR, Seria Geografica i Geofisica*, Vol. 12, No. 1, 10 pp., Moscow, 1947. H. E. L.
6892. ESCHER, B. G., "Frondslagen der Algemeene Geologie (Principles of General Geology)" 7th edition, N. V. Wereldbibliotheek, 442 pp. Price 15 guilden. Amsterdam, 1948.
 Chapter XIV (332-338, fig. 412-419) deals with Seismology. The author discusses: Perceptible Phenomena, Principles and purposes of the seismographs, Seismograms, Depth of Focus, Causes of earthquakes, and Seismic Areas. J. F. S.
- EWING, Maurice, "Atlantic Cruise 152 to the Mid-Atlantic Range" (abstract), Geological Society of America. See No. 6898 of this list.
6893. EWING, Maurice, "Exploring the Mid-Atlantic Range", *National Geographic Magazine*, Vol. 94, No. 3, 275-294, numerous illustrations, Washington, Sept., 1948.
- EWING, Maurice, and PRESS, Frank, "Low-speed layer in Water-covered Areas". See No. 6959 of this list.
6894. FOSTER, H. Alden, "Sloping Surge Tank Designed to Resist Earthquake Forces", *Engineering News-Record*, Vol. 141, No. 20, 93-95, 2 fig., New York, Nov. 11, 1948.
6895. FU, C. Y., "Methods and Problems of Geophysics", *Journal of the Chinese Geophysical Society*, Vol. 1, No. 1, 1-15, bib., Nanking, June, 1948.

6896. GALANOPULOS, A. G.

- (1) "Das Schadenbeben Messeniens vom 28. März 1885", *Publications of the Academy of Athens*, Vol. 15, 469-473, 1 fig., bib., Athens, 1940.
- (2) "Das Riesenbeben der Messenischen Küste vom 27. August 1886", *Ibid.*, Vol. 16, 120-127, 2 fig., bib., 1941.
- (3) "Das Erdbeben von Messenien vom 22 Januar 1899", *Ibid.*, Vol. 16, 127-134, 1 fig., bib., 1941.
- (4) "Les deux violents séismes de Larissa de 1892 et de 1941 (Grèce)", *Comptes Rendus des Séances de l'Académie des Sciences*, Vol. 223, 821-822, Paris, Nov. 13, 1946.
- (5) "The Distribution of the Seismic Activity on the Wider Greek Area" (in Greek), Reprint No. 307-309, *Academy of Athens*, 1948.

— GALANOPULOS, A., and GEORGALAS, Georges, "Le grand tremblement de terre de Chalcidique 26 septembre 1932". See No. 6901 of this list.

6897. GANE, P. G., "An Electrostatic Seismometer", *Bulletin, Seismological Society of America*, Vol. 38, No. 2, 94-105, 4 fig., Berkeley, April, 1948.

— GELDART, L. P., and NORDQUIST, J. M., "Coincidences in Calendar Dates of Earthquakes" (abstract), Geological Society of America. See No. 6899 of this list.

6898. GEOLOGICAL SOCIETY OF AMERICA.

"Program of 1948 Meetings of the Geological Society of America, The Paleontological Society, Mineralogical Society of America, and the Society of Vertebrate Paleontology in New York, November 11-13, 1948". The above publication distributed by the Geological Society of America is a 74 page booklet listing the events taking place at the above meetings and giving the abstracts of all papers to be presented. The papers of interest to seismologists are listed in the *Bibliography* under the names of the following authors: Bucher, Wilson, Lill, and Ewing.

6899. GEOLOGICAL SOCIETY OF AMERICA.

In Vol. 59 of the *Bulletin of the Geological Society of America* (No. 12, Part 2, Washington, Dec., 1948) there are listed the abstracts of papers presented at meetings of that society during 1948. Papers listed which are of interest to seismologists are as follows:

- (1) "Energy of Earthquakes" by Mustafa Aydinoglu.
- (2) "Earthquakes and Rock Creep" by Hugo Benioff.
- (3) "Amplitude of P Waves" by Perry Byerly and Alexis I. Mei, S.J.
- (4) "Seismograph Station near Hungry Horse Dam, Montana" by Dean S. Carder and F. H. Werner.
- (5) "Difficulties in the Accepted Theories of Seismic Wave Propagation" by C. Hewitt Dix.
- (6) "Use of Large Computing Machines in Seismology" by C. Hewitt Dix.
- (7) "Trend of Engineering Design since the Long Beach Shock of March 10, 1933", by H. M. Engle.
- (8) "Horizontal Earth Movement, Vicinity of San Francisco" by William Gibson.
- (9) "On a Layer of Relatively Low Wave Velocity at a Depth of about 80 Kilometers" by B. Gutenberg.

- (10) "Microseisms in New England—Case History II" by L. Don Leet.
- (11) "California Earthquakes in 1912" by George D. Louderback.
- (12) "Montana Earthquake of November 23, 1947" by Stephen W. Nile.
- (13) "Coincidences in Calendar Dates of Earthquakes" by J. M. Nordquist and L. P. Geldart.
- (14) "Pasto (Colombia) Earthquake of July 14, 1947" by J. Emilio Ramirez, S.J.
- (15) "Aftershocks of the Manix Earthquake" by C. F. Richter and J. M. Nordquist.
- (16) "Progress Report of the Seismological Work of the United States Coast and Geodetic Survey in 1947" by Franklin P. Ulrich.

- 6900. GEOPHYSICAL SOCIETY OF TULSA.
"History of the Society of Exploration Geophysicists", Geophysical Society of Tulsa, 8 pp., Tulsa, 1948.

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- GERRARD, J. A. F., and COSTER, H. P., "A Seismic Investigation of the History of the River Rheidol in Cardiganshire". See No. 6886 of this list.
- GHERZI, E., S.J., "Microseisms: Correlation of Microseisms and Meteorological Data", Association de Séismologie. See No. 6862 of this list.
- GIBSON, William, "Horizontal Earth Movement, Vicinity of San Francisco" (abstract), Geological Society of America. See No. 6899 of this list.

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- 6903. GIORGI, Maurizio, "Sui Periodi della Fase Massima di Terremoti Lontani", *Annali di Geofisica*, Vol. 1, No. 1, 116-125, 1 fig., 2 tab., bib., Rome, Jan., 1948.

- 6904. GIORGI, M., and VALLE, P. E., "Contributo allo Studio delle Onde 'M'", *Annali di Geofisica*, Vol. 1, No. 1, 87-102, 5 fig., 6 tab., bib., Rome, Jan., 1948.

- 6905. GIORGI, M., and VALLE, P. E., "Tempi di Tragitto delle Onde 'M' per l'Italia Centrale", *Annali di Geofisica*, Vol. 1, No. 3, 476-477, 1 tab., bib., Rome, July, 1948.

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6907. GUTENBERG, B., "A Geophysicist X-Rays Mother Earth", *Engineering and Science Monthly*, Vol. 11, No. 2, 19-20, 3 fig., New York, Feb., 1948.
6908. GUTENBERG, B., "On the Relatively Low Wave Velocity at a Depth of About 80 Kilometers", *Bulletin, Seismological Society of America*, Vol. 38, No. 2, 121-148, 10 fig., 7 tab., bib., Berkeley, April, 1948.
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6909. GUTENBERG, B., and RICHTER, C. F., "Deep-focus Earthquakes in the Mediterranean Regions", *Geofisica Pura e Applicata*, Vol. 12, No. 3-4, 1-4, 1 fig., 1 tab., bib., Milan, 1948.
6910. GUTENBERG, B., and RICHTER, C. F., "Earthquake Study in Southern California, 1947", *Transactions, American Geophysical Union*, Vol. 29, No. 3, 406-407, 1 fig., bib., Washington, June, 1948.
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SUBJECT INDEX FOR THE YEAR 1948

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