

NOW AVAILABLE

EARTHQUAKES:

Cause, Prediction, and Control

J.H. TATSCH

This is no ordinary book on earthquakes. Nor does it simply detail the gross characteristics of the Earth's seismicity. Rather, it shows how the Earth's seismic characteristics have originated, how they have evolved, and what causes today's earthquakes. It does this by using a single, long-lived, deep-seated, global mechanism that has been operating within the Earth during the 4.6 billion years that the Earth is believed to have been in existence. This mechanism is the "tectonospheric Earth model", which has been described in the book, *The Earth's Tectonosphere* (1972), and used as the basis for the correlative follow-on books, *Mineral Deposits* (1973), *Petroleum Deposits* (1974), *Gold Deposits* (1975), and *Geothermal Deposits* (1976), by the same author.

Chapter heading: 1, The Earth's seismicity: a global survey; 2, The Tectonospheric Earth Model: a new concept; 3, The geometrical, mechanical, thermal, and chemical behavior of the Earth during the past 4.6 billion years: a summary; 4, Plate tectonics, omniductive processes, and seismotectonomagmatic belts; 5, The Galapagos-to-Gibraltar segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 6, The Gibraltar-to-Bengal segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 7, The Bengal-to-Kermadecs segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 8, The Kermadecs-to-Galapagos segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 9, The Aleutians-to-Galapagos segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 10, The Galapagos-to-Bouvet segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 11, The Bouvet-to-Bengal segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 12, The Bengal-to-Aleutians segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 13, The Aleutians-to-Gibraltar segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 14, The Gibraltar-to-Bouvet segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 15, The Bouvet-to-Kermadecs segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 16, The Kermadecs-to-Aleutians segment of the Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 17, Vestiges of Pre-Cenozoic seismotectonomagmatic belts and the associated geoseismicity; 18, The cause, prediction, and control of earthquakes: a summary.

This book, composed almost entirely of proprietary material, summarizes the results of an independent research project undertaken to determine the most probable geometrical, mechanical, thermal, and chemical aspects of the origin, evolution, and present characteristics of the Earth's seismicity. Because of its proprietary nature, very little of this material has been published in journals. Nor is it expected that very much of it will be offered for publication other than in book form. This unified approach to the analysis of the cause, prediction, and control of earthquakes, we feel, permits the reader to gain a better perspective of the subject matter presented.

Available directly from the address shown below or from book dealers in all parts of the world. Hard cover, 6 x 9 inches, 451 pages. Table of contents, line drawings, index, maps, references. \$108.00. ISBN:0-912890-02-9. LC:75-9305. 1977.

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