

# SEISMICITY

## OF THE EUROPEAN AREA / 2

BY H. RAU



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# Seismicity Of The European Area Part I

**Giuliano F. Panza, Mircea  
Radulian, Czezar-I. Trifu**



## **Seismicity Of The European Area Part I:**

*Seismicity of the European Area* Vít Kárník, 2012-12-06 The second part of the Seismicity of the European Area contains further results of the survey of European seismicity performed during the period 1959-1967. It was intended to publish the second part with the shortest possible delay. The first part appeared in 1968 when the manuscript of the second part was handed over to the publisher. Unfortunately, due to unexpected technical difficulties, the publication had to be postponed until the end of 1970. Thus, the manuscript reflects the state of knowledge corresponding to the year 1967 when the work on the manuscript was concluded. It was only possible to make minor changes or to insert additional very brief information into the catalogue. Prague, July 20, 1970. Vít Kárník.

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**Seismicity and Seismic Risk in the Offshore North Sea Area** A.R. Ritsema, A. Gurpinar, 2012-12-06 The Workshop on the Seismicity and Seismic Risk in the Offshore North Sea Area was intended to bring together experts from a variety of disciplines as well as interest groups with involvement in siting design and construction of offshore structures in the region. Participants came from the fields of geology, seismology, oceanography, geotechnical and structural engineering and risk analysis. The wide range of participant affiliations included institutes, Observatories, universities, oil companies, consultants and insurance firms. All nationalities around the North Sea were present, in addition to some experts from outside the region. All participants were present on the basis of personal invitation. The idea of organizing the Workshop stemmed from considerations such as the rapidly increasing material and personnel investments and versatility of type of structures in the basin during the past decade, the present-day important role of the North Sea oil and gas production in the economy of Western Europe and the increase of potential environmental risks in the region. Although devastating earthquakes are almost unknown in the area and seismic hazard is not great, the seismic risk grows with the growing size and number of structures in the area. The study of the potential seismic risks therefore cannot be neglected any more. The siting and design of offshore platforms and submarine pipelines are controlled by the degree of their vulnerability as well as the seismic hazard in the region.

**Bibliography of Statistical Aspects of Seismicity** European Seismological Commission. Working Group on Statistical Methods, 1978.

**Seismic Hazard of the Circum-Pannonian Region** Giuliano F. Panza, Mircea Radulian, Czezar-I. Trifu, 2013-03-11 requiring the adaptation of probabilistic maps to design ground motions and the generalization of design parameters to locations where there is little seismic history. Maximum displacements, velocities and

based on the European Building Code EC8 design ground acceleration maps have thus been produced by ZivCic et al for Slovenia Marku ic et al for Croatia Bus et al for Hungary and Radulian et al for Romania The last two contributions in the volume are dedicated to studies of local site effects that could affect the microzonation of large urban areas Moldoveanu et al employed a technique based on the modal summation and finite differences to calculate the expected ground motion in the capital city of Bucharest due to large intermediate depth Vrancea earthquakes Their results outline that the presence of alluvial sediments and the possible variation of event scenario require the use of all three components of motion for a reliable determination of the seismic input The study of Marmureanu et al more limited in scope offers a laboratory analysis of the attenuation effects for surface layers The authors confirm that seismic attenuation in sedimentary layers is a function of the strain levels induced by large earthquakes and find that the quality factor is nearly constant over a relatively wide frequency range between 7 and 100 Hz

**Seismicity of Central Europe** D. Procházková,1990 **Seismic Ground Motion in Large Urban Areas** Giuliano F. Panza,Ivanka Pakaleva,Concettina Nunziata,2012-12-06 The accelerated and often uncontrolled growth of the cities has contributed to the ecological transformation of their immediate surroundings Factors contributing to the urban vulnerability include lowering or rising of the water table subsidence loss of bearing capacity of soil foundations and instability of slopes Recent catastrophic earthquakes highlight the poor understanding by decision makers of seismic related risk as well as the tendency of some builders to use the cheapest designs and construction materials to increase short term economic returns on their investment Losses from earthquakes will continue to increase if we do not shift towards proactive solution Disaster reduction is both an issue for consideration in the sustainable development agenda and a cross cutting issue relating to the social economic environmental and humanitarian sectors As location is the key factor which determines the level of risk associated with a hazard land use plans and mapping should be used as tools to identify the most suitable usage for vulnerable areas *Report SE* ,1978 **Behaviour of Steel Structures in Seismic Areas**

Federico Mazzolani,James M. Ricles,Richard Sause,2009-12-03 Behaviour of Steel Structures in Seismic Areas comprises the latest progress in both theoretical and experimental research on the behaviour of steel structures in seismic areas The book presents the most recent trends in the field of steel structures in seismic areas with particular reference to the utilisation of multi level performance based Proceedings of Conference VI ,1979 **Microearthquake Seismology and**

**Seismotectonics of South Asia** J.R. Kayal,2008-08-22 Hardly a week passes without our learning of natural geologic disaster somewhere in the world be it a volcanic eruption landslide or destructive earthquake The prominent public notice given to such events is not only the result of better communications but also results from the increased impact of these events on a growing human population In recent years the population has increased greatly in regions of active tectonics Northern India and the surrounding areas are prime examples The consequence is that people and their man made structures are concentrated close to active faults and steep landslide prone terrains In just the past several years even

moderate earthquakes with seismic magnitudes less than 6.5 have killed as many as 20 000 people precisely because these earthquakes occurred directly beneath population centres in central India. The greater Himalayan region including the Ganges Plain is a prime example of the coexistence of a pronounced geological hazard with a growing human population. Due in part to the spectacular topography the region has long attracted scientific investigations and may be considered as the birthplace of modern studies of earthquake hazards. R. D. Oldham (1858-1936) of the Geological Survey of India played a prominent role in the development of modern studies of historical seismicity, active faulting and seismic wave analysis. Oldham published extensively on the earthquakes and the geology of India including his report entitled *Catalogue of Indian earthquakes from the earliest time to the end of A.D. 1869* (Mem. Geol. Surv.).

**The 1940 Vrancea Earthquake. Issues, Insights and Lessons Learnt** Radu Vacareanu, Constantin Ionescu, 2016-03-02. These proceedings include most of the available information on this major seismic event and its consequences. With an estimated moment magnitude of 7.7 and a heavy toll in terms of human and economic losses it ranks as the largest intermediate depth earthquake in Europe in the twentieth century. Nevertheless because of the difficult conditions in the 1940s the lessons learnt after the Vrancea earthquake were not extensively shared with the international scientific community and thus this book fills a gap in the literature discussing the knowledge acquired after major disasters. Past experience together with current understanding of the 1940 Vrancea earthquake are presented along with the latest information on Romanian seismicity, seismic hazard and risk assessment and seismic evaluation and rehabilitation of buildings and structures. Moreover it includes excerpts from Romanian post disaster reports and textbooks concerning the earthquake.

**Manual of Seismological Observatory Practice** World Data Center A for Solid Earth Geophysics, 1979.

**Terrestrial Heat Flow in Europe** V. Cermak, L. Rybach, 2012-12-06. The outflow of heat from the earth's interior, the terrestrial heat flow and the temperature field at depth are determined by deep seated tectonic processes. The knowledge of the regional heat flow pattern is thus very important in geophysics and provides a useful tool for studying crustal and lithospheric structure and understanding the nature of their evolution. In order to use the results of heat flow measurements for regional studies and/or to correlate the observed surface geothermal activity with other geophysical or geological features a map showing the surface distribution of heat flow is necessary. Since 1963 when the first comprehensive listing of all available heat flow data appeared (Lee, 1963) several attempts have been made to update the list, to classify all the data and to interpret them with respect to tectonics, deep structure and to use them for constructing surface heat flow maps. The first listing was subsequently revised by Lee and Uyeda (1965) numerous new data which were published thereafter were included in successive catalogs compiled by Simmons and Horai (1968) and then again by Jessop et al. (1976). The map showing the surface heat flow pattern may also be of great value for practical purposes in view of the recent world wide search for applicable sources of geothermal energy.

**Earthquake Prediction** SHIMAZAKI, STUART, 2013-11-22.

**Recent Studies in Geophysical Hazards** Mohammed I. El-Sabh, Tad S.

Murty, Srinivasan Venkatesh, F. Siccardi, K. Andah, 2012-12-06 Over the past 20 years the costs of natural disasters have escalated significantly. The lives of over 800 million people have been disrupted and the number of catastrophes has nearly quadrupled. At present the increasing global threat of natural disasters in spite of our increased knowledge is ominous. With the growth in world population, the increasing of resources in newly developing areas and the increasing cost and sophistication of engineering structures and technical installations, there is an urgent need to seek to understand the potential threats posed by natural hazards and to ascertain the best ways of mitigating their damaging effects. To meet this urgent threat, the United Nations UN General Assembly in December 22, 1989, passed a Resolution which declared the 1990s to be the International Decade for Natural Disaster Reduction (IDNDR). As a contribution to the decade, the International Symposium Hazards 91 was held in Perugia, Italy, during 4-9 August 1991. The conference was attended by specialists from 34 countries and a total of 110 papers were presented at 20 sessions covering a very broad range of topics which proved to be of significant value for future research. The sixteen articles included in this book provide a unique overview of the state of the science in geophysical hazards, including climatic, atmospheric, hydrological and geological hazards. Furthermore, the results of a panel on the IDNDR and the recommendations adopted during the meeting are presented at the end of this volume. *Recent Studies in Geophysical Hazards* is thus an excellent reference source for scientists, engineers and policy makers.

*Proceedings of the Seventeenth Assembly of the European Seismological Commission* E. Bisztricsany, 2012-12-02

*Proceedings of the Seventeenth Assembly of the European Seismological Commission* *Studies Related to the Charleston, South Carolina, Earthquake of 1886* Douglas W. Rankin, 1977 *Studies Related to the Charleston, South Carolina, Earthquake of 1886* Geological Survey (U.S.), 1977 *Active Tectonics of Northwestern Anatolia* Conrad Schindler, Martin Pfister, 1997 **U.S. Geological Survey Professional Paper**, 1977

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