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Nota di contenuto	1. A Spatial and Economic Analysis of Megathrust Earthquakes (Suminori Tokunaga) -- Part: Impacts of the Great East Japan Earthquake -- 2. Economic Analysis of Regional Renewal and Recovery from the Great Earthquake (Suminori Tokunaga, Maria Ikegawa, and Mitsuru Okiyama) -- 3. Impact of the Great East Japan Earthquake on Production Loss Using an Inter-Regional Social Accounting Matrix (Mitsuru Okiyama) -- 4. Analysis of Supply Chain Disruptions from the Great East Japan Earthquake in the Automotive Industry and Electronic Parts/Devices (Suminori Tokunaga and Mitsuru Okiyama) -- Part : Reconstruction and Regional Renewal after the Great East Japan Earthquake -- 5. Economic Analysis on Fiscal Measures for Reconstructing Tohoku from the Great East Japan Earthquake: Using the

Dynamic Two-Region CGE Model (Mitsuru Okiyama and Suminori Tokunaga) -- 6. Measuring Economic Gains from New Food and Automobile Industry Clusters with Coagglomeration in the Tohoku Region (Suminori Tokunaga and Mitsuru Okiyama) -- 7. Production Recovery of Fisheries and Seafood Manufacturing after the Disaster in Japan: Economic Evaluation using Dynamic CGE Model (Yuko Akune) -- 8. Economic ripple effects of biomass electricity power plants for earthquake disaster reconstruction in the coastal area of Iwate prefecture (Yoji Kunimitsu) -- Part III: Evaluating Regional Impacts of Megathrust Earthquakes and Tsunamis -- 9. Economic Impacts of Population Decline due to the Great East Japan Earthquake: Interregional Input-output Approach (Yoshihumi Ishikawa). 10. An NEG Analysis of Megathrust Earthquakes in Japan (Ryusuke Ihara) -- 11. Evaluating Dynamic, Regional, and Economic Impacts of the Tokai Earthquake (Hiroyuki Shibusawa) -- 12. Reconstruction and Rehabilitation after Large-scale Natural Disasters: Lessons from the Indian Ocean Tsunami in Aceh and Nias, Indonesia (Budy P. Resosudarmo).

Sommario/riassunto

This book presents an evaluation of the impacts of megathrust earthquakes and tsunamis on regional economies and subsequent reconstruction, as well as regional revitalization by the spatial economic model and dynamic macro and regional computable general equilibrium (CGE) models. The cases examined are the Great East Japan Earthquake and the Indian Ocean Tsunami. The study constructs three models of these megathrust earthquakes and the associated tsunami. In the first model, the regional CGE model is proposed with a database comprising the two-regional social accounting matrix for 2005 between the region comprising four disaster-affected prefectures of Japan and the non-disaster region. For the recursive dynamic regional CGE model, the model that expanded and improved the dynamic two-regional CGE model to reflect the incomplete employment conditions and the aging society is used to analyze the impacts of an earthquake and the construction of industrial clusters. In the second model, the interregional input-output model is proposed in order to analyze the impacts of the earthquake and rapid population decline and construction of a biogas electricity power plant. In the third model, a new economic geography (NEG) model is proposed, consisting of the 47 prefectures of Japan in order to investigate the impacts of the Great East Japan and Nankai megathrust earthquakes and the associated tsunami and to consider how they change the regional economies of Japan. Using these three models, the impacts of megathrust earthquakes and tsunamis on regional economies and reconstruction and on regional revitalization are evaluated.
