



Development of Seismic Microzonation Maps Using GIS: A case study of Banda Aceh, Indonesia

Adi Safyan Yahya

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This book demonstrates how to make seismic hazard maps that consists of ground shaking hazard map, liquefaction hazard map, landslides hazard map, surface faulting hazard map and tsunami hazard map by using Geographic Information Systems (GIS). The maps created through series of analysis of parameters that influence the effects of the earthquake such as seismological data (i.e. peak ground acceleration, fault line), geological data (i.e. rock and soil formation), geotechnical data (i.e. soil type, groundwater distribution and depth), geophysical data (contour), and tsunami data. By doing weighting the parameters that influence the effects of the earthquakes, it will generate maps showing the areas that have an earthquake hazard level, identified as low, medium, or high hazard effects. The resulting maps are very useful for the development of a city, where the settlement is directed to areas that have low hazard effects, and some recommendations have to be taken in designing facilities in high or medium hazard effects. This book is very useful for student of GIS, GIS practitioners, urban planner, or those working in the field of disaster management.

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