

EARTHQUAKE SOURCE PARAMETERS REVIEW IN INDIAN CONTEXT

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ABSTRACT

Earthquakes cause loss of life and property. In order to cope up hazard made by earthquakes it is essential to study their nature. Scientists over the world are in progress to study various aspects of earthquakes. This paper presents a brief overview regarding some of the specific studies related to the developments of earthquake source models and scaling laws that laid a strong foundation to study earthquake source parameters from observational data around the world. Different methods in the time domain, frequency domain, including empirical green function are used to estimate source parameters. Some typical studies of earthquake source parameters based on observational data and development of scaling laws in Indian region along with the salient results are presented.

KEYWORDS: Earthquake Source Models, Brune Model, Source parameters, f_{\max} , Himalaya