All articles in *Structures* are available free of charge to payinggrade members of the Institution as one of their membership benefits. The journal is available online at: www.structuresjournal. org

Spotlight on Structures

Read the latest issue

Volume 34 of *Structures* (December 2021) is now available to read at www.sciencedirect.com/journal/structures/vol/34.

Editor-in-Chief, Leroy Gardner, has selected a paper on seismic simulation tools and methods for developing countries as his 'Featured Article' from this issue. The article will be available free of charge for six months.

Editor-in-Chief's Featured Article

Seismic simulation tools and methods appropriate for developing countries

Jitendra Bothara^a, Rajendra Desai^b, Jason Ingham^a and Dmytro Dizhur^c ^a Dept. of Civil and Environmental Engineering, The University of Auckland, New Zealand ^b National Centre for Peoples Action in Disaster Preparedness, Ahmedabad, India ^c Dizhur Consulting, Auckland, New Zealand Understanding the earthquake behavior of structures is the first step towards developing a strategy for earthquakeresilient design and construction of the built environment. The growing number of earthquake simulators (shake tables) globally has allowed researchers to closely study the response of different building types when subjected to simulated earthquake shaking. Typically, such simulators are sophisticated and complex testing apparatus that require high levels of skill and experience for their effective operation and are associated with high costs of installation. operation. maintenance. and repair. In developing countries

where there is limited investment in research, the application of such tools to meet the current need for experimental campaigns is generally not feasible, and hence alternative tools and methods are sought. In this context, a detailed review into alternative cost-effective tools and methods such as shock tables, harmonic shake tables, and controlled underground explosions for experimental testing was undertaken and is reported herein. Furthermore, the design, detailing, and construction of a shock table and a harmonic shake table are presented.

→ Read the full paper at https://doi. org/10.1016/j.istruc.2021.07.067





Register for alerts

If you'd like to receive regular updates about new content in Structures, register for email alerts at www.sciencedirect.com/.