

QUAKE BULLETIN

Monthly Bulletin

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and in India in the month of April, 2012. The list of the earthquakes is as follows:

Worldwide:

(Source: <http://earthquake.usgs.gov/earthquakes/eqinthenews/>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
17/4/2012	07:13:50	5.474°S	147.097°E	208.2	6.8	Eastern New Guinea Reg, Papua New Guinea
12/4/2012	07:15:48	28.790°N	113.142°W	10.3	6.9	Gulf of California
11/4/2012	10:43:09	0.773°N	92.452°E	16.4	8.2	Off the West Coast of Northern Sumatra
11/4/2012	08:38:37	2.311°N	93.063°E	22.9	8.6	Off the West Coast of Northern Sumatra

India wide:

(Source: Indian Meteorological Department, IMD, <http://www.imd.gov.in/section/seismo/dynamic/CMONTH.HTM>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
25/4/2012	7:53:26	09.1°N	94.0°E	10	5.1	Nicobar Islands Region
25/4/2012	7:42:23	08.9°N	94.1°E	10	5.8	Nicobar Islands Region
24/4/2012	19:14:41	09.1°N	93.9°E	10	5.0	Nicobar Islands Region
24/4/2012	14:57:10	09.0°N	94.1°E	10	5.5	Nicobar Islands Region
14/4/2012	6:17:31	17.0°N	73.5°E	10	4	Near Ratnagiri, Maharashtra
14/4/2012	5:27:40	17.4°N	73.8°E	10	4.9	Satara Dist., Maharashtra
14/4/2012	3:23:04	23.5°N	71.0°E	7	4	Rann of Kachchh, Gujarat

GROUND MOTION RECORDS:

In our centre around 120 ground motion records are available. Since 1973 the ground motions are available with N-S, E-W and U-D components. All the available ground motions are listed.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component
1	Delhi-Haryana	25 Nov 2007	Bahadurgarh	E-W
2	Delhi-Haryana	25 Nov 2007	Bahadurgarh	N-S

3	Delhi-Haryana	25 Nov 2007	Bahadurgarh	U-D
4	Delhi-Haryana	25 Nov 2007	Lodhi Road	E-W
5	Delhi-Haryana	25 Nov 2007	Lodhi Road	N-S
6	Delhi-Haryana	25 Nov 2007	Lodhi Road	U-D
7	Delhi-Haryana	25 Nov 2007	Ballabhgarh	E-W
8	Delhi-Haryana	25 Nov 2007	Ballabhgarh	N-S
9	Delhi-Haryana	25 Nov 2007	Ballabhgarh	U-D
10	Delhi-Haryana	25 Nov 2007	Rewari	E-W
11	Delhi-Haryana	25 Nov 2007	Rewari	N-S
12	Delhi-Haryana	25 Nov 2007	Rewari	U-D
13	Delhi-Haryana	25 Nov 2007	Gurgaon	E-W
14	Delhi-Haryana	25 Nov 2007	Gurgaon	N-S
15	Delhi-Haryana	25 Nov 2007	Gurgaon	U-D
16	Delhi-Haryana	25 Nov 2007	Palwal	E-W
17	Delhi-Haryana	25 Nov 2007	Palwal	N-S
18	Delhi-Haryana	25 Nov 2007	Palwal	U-D

The records are available at server ([\\10.2.28.225](http://10.2.28.225))

IIIT LIBRARY:

New Arrivals:

- ✓ Kattan, Peter I (2010), "Matlab Guide to Finite Elements: An Interactive Approach" 2nd edition, Springer, New Delhi.
- ✓ Rossmann, Jenn Stroud (2011), "Introduction to Engineering Mechanics: a Continuum Approach" CRC Press.

EERC LIBRARY:

New Arrivals:

- ✓ Walter D Pilkey (2005), "Formulas for stress-strain and structural matrices" 2nd edition, John Wiley & Sons, inc.
- ✓ Robin Fell, Patrick MacGregor, David Stapledon and Graeme Bell (2005), "Geotechnical Engineering of Dams" Taylor & Francis Group.
- ✓ Kevin Hefferan and John O'Brien (2010), "Earth Materials" Wiley-Black Well Publishers
- ✓ James Ambrose, Patrick Tripeny (2012), "Building Structures" John Wiley & Sons, inc.

Publications:

The following publications are very useful for research and are available in server

- ❖ S Mohsen S Asaei and Shahid Kabir., "Determining the Optimum Location of Shear Walls in RC Buildings Using Nonlinear Analysis", Proceedings of 6th International Engineering and Construction Conference, Cairo, Egypt, 2010.
- ❖ D K Bell and B J Davidson, "Evaluation of Earthquake Risk Buildings with Masonry Infill Panels", Proceedings of NZSEE Conference 2001.
- ❖ Peter Fajfar, "A Nonlinear Analysis Method for Performance Based Seismic Design", Earthquake Spectra, Vol.16, No.3, 2000.
- ❖ Xiong Lihong, David Xiong, Wu Ruifeng and Xia Jingqian, "Shaking Table Tests and Dynamic Analyses of Masonry Wall Buildings With Frame Shear Walls at Lower Stories", Earthquake Engineering & Engineering Vibrations, Vol7, No3, 2008.
- ❖ Zhang Cuiqiang, Zhou Ying Zhou Deyuan and Lu Xilin., "Study on the Effect of the Infill Walls on the Seismic Performance of a RC Frame", Earthquake Engineering & Engineering Vibrations, Vol10, No4, 2011.
- ❖ John F Hall, Thomas H Heaton, Marvin W Halling and David J Wald., "Near Source Ground Motion and its Effects on Flexible Buildings", Earthquake Spectra, Vol11, No4, 1995.

The publications are available at server (<\\10.2.28.225>)