

DR. PRANTIK MANDAL
CSIR-NGRI, HYDERABAD, INDIA

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NGRI RESEARCH GROUP:

Broadband and Strongmotion Seismology

FIELD OF SPECIALIZATION:

Seismology, Inversion, Modeling & Processing of Earthquake Data

EDUCATION

1988 – M.Sc. (tech.) in Applied Geophysics, Indian School of Mines, Dhanbad, Jharkhand
1994 - Ph.D. in Geophysics, Osmania University, Hyderabad, Andhra Pradesh

PROFESSIONAL EXPERIENCE

1989-1991 Junior Research Fellow, NGRI, Hyderabad
1991-1994 Senior Research Fellow, NGRI, Hyderabad
1994-1998 Scientist-B, Reservoir Induced Seismology Group, NGRI, Hyderabad
1998-2002 Scientist-C, Reservoir Induced Seismology Group, NGRI, Hyderabad
2002-2006 Scientist-E1, Broadband Seismology Group, NGRI, Hyderabad
2006-present Principal Scientist and Head, Broadband and Strong-motion Seismology Group, NGRI, Hyderabad

SERVICE

1. **Life Member** of Indian Geophysical Union
2. **Member** of Geological Society of India
3. **Life member** of Seismological Society of India

AWARDS AND HONORS

1995 Young Scientist Award in Earth-sciences, Indian Science Congress Association (ISCA), Kolkata
2000 CSIR Young Scientist Award, CSIR in Earth-sciences, New Delhi
2004 Raman Research Fellowship in Earth-sciences, CSIR, New Delhi
2007 National Mineral Award-2007 in Disaster Management, Ministry of Mines, New Delhi
2010 INSA-JSPS fellowship for exchange of scientists, INSA, Delhi
2010 Associate Professor, Academy of Scientific & Innovative Research at CSIR
2012 Thesis Supervisor, recognized by Osmania University of Hyderabad (top University in India)

Ph.D. Advisor:

Mr. B. Sairam, Scientist-B, ISR, Gandhinagar, Gujarat
Mr. R. Narsaiah, Manager, GSPC, Gandhinagar, Gujarat

Scientists with whom I have collaborated (outside NGRI):

CURRENT

Prof. Joachim Ritter, Head of Seismology, Geophysical Institute, Karlsruhe, Germany

PAST

Prof. M.V. Rodkin, IIEPT, Moscow, Russia

PATENT

Mandal, P., Rastogi, B.K., Chadha, R.K., Satyanaryana, H.V.S., C.S.P., Sarma, Satyamurty, C., Nageshwar Rao, A., Kumar, N. and Raju, I.P. (2002): A method for forecasting moderate size reservoir-triggered earthquakes, United States Patent, No. 6728640 filed on 06.08.2002 (Awarded on 27.04.2004).

Research Publications

Names of all the authors	Title of the paper	Name of the Journal Volume, year and page
1. Mandal, P. and Singh, R.N.	Gravity induced near surface stresses in long symmetric ridge-valley systems	Proc. Ind. Acad. Sci. (Earth Planet, Sci.), 100, 1991, 267-278.
2. Mandal, P. , Manglik, A. and Singh, R.N	Intraplate stresses along a section of Kavali-Udipi DSS profile of south Indian shield due to topography and density heterogeneities	Jour. of Geodynamics, 17, 1993, 203-211
3. Mandal, P. and Singh, R.N.	Three - dimensional intraplate stress distributions associated with topography and crustal density inhomogeneities beneath the Deccan Volcanic Province	Proc. Ind. Acad. Sci. (Earth Planet. Sci.), 105, 1996, 143-155.
4. Gupta, H.K., Rastogi, B.K., Chadha, R.K., Mandal, P. and Sarma, C.S.P.	Enhanced reservoir induced earthquakes in Koyna region, India, during 1993-95	Joul. Seismology, 1(1), 1997, 47-53
5. Mandal, P. , Manglik, A. and Singh, R.N.	Intraplate stress distribution induced by topography and crustal density inhomogeneities beneath the Killari, India, region	Jou. Geophys. Res., 102, 1997, 11,719-11,729.
6. Chadha, R.K., Gupta, H.K., Kumpel, H.J., Mandal, P. , Nageswara Rao, A., Kumar, N., Radhakrishna, I., Rastogi, B.K., Raju, I.P., Sarma, C.S.P., Satyamurthy, C. and Satyanarayana, H.V.S.	Delineation of Active Faults, Nucleation Process and Pore Pressure Measurements at Koyna (India),	Pure and Applied Geophysics, 150 (3/4), 1997, 551-562

7. Rastogi, B.K., Mandal, P. and Kumar, N.	Seismicity Around Dhamni Dam, Maharashtra, India	Pure and Applied Geophysics, 150 (3/4), 1997, 493-509, 1997
8. Rastogi, B.K., Chadha, R.K., Sarma, C.S.P., Mandal, P. , Satyanarayana, H.V.S., Raju, I.P., Kumar, N., Satyamurthy, C. and Nageswara Rao, A.	Seismicity at Warna Reservoir (Near Koyna) through 1995	Bull. Seism. Soc. Am., 87, 1997, 1484-1494.
9. Gupta, H.K., Chadha, R.K., Rao, M.N., Narayana, B.L., Mandal, P. , R. Kumar, M. and Kumar, N	The Jabalpur earthquake of 22 May, 1997 in the stable continental region of Peninsular India	Jou. Geol. Soc. Ind., 50, 1997, 17-24.
10. Mandal, P. and Rastogi, B.K.	A frequency-dependent relation of coda Qc for Koyna-Warna Region, India.	Pure and Applied Geophysics, 153, 1998, 163-177
11. Mandal, P. , Rastogi, B.K. and Sarma, C.S.P.	Source Parameters of Koyna Earthquakes, India	Bull. Seis. Soc. Am., 88(3), 1998, 833-842.
12. Singh, S.K., Ordaz, M., Mikumo, T., Pacheco, J., Valdes, C. and Mandal, P.	Implications of a composite model and seismic-wave attenuation for the observed simplicity of small earthquakes and reported duration of earthquake initiation phase	Bull. Seism. Soc. Am., 88, 1998, 1171-1181.
13. Mandal, P.	Intraplate stress distribution induced by topography and crustal density heterogeneities: Implications for the generation of shallow focus intraplate earthquakes in the south Indian shield	Tectonophysics, 302, 1999, 159-172
14. Rastogi, B.K. and Mandal, P.	Foreshocks and Nucleation of Small- to Moderate Sized Koyna Earthquakes (India)	Bull. Seis. Soc. Am., 89(3), 1999, 829-836.
15. Chadha, R.K., Rastogi, B.K., Mandal, P. and Sarma, C.S.P.	Reservoir Associated Seismicity (RAS) in Indian shield	J. Geol. Soc. Ind., 43, 1999, 415-423.
16. Singh, S.K., Dattatrayam, R.S., Shapiro, N.M., Mandal, P. , Pacheco, J.F. and Midha, R.K.	Crustal and Upper Mantle structure of Peninsular India and Source Parameters of the 21 May 1997, Jabalpur Eq. (Mw5.8): Results from a New Regional broadband Network	Bull. Seism. Soc. Am., 89, 1999, 1631-1641.

17. Mandal, P. , Rastogi, B.K. and Gupta, H.K.	Recent Indian Earthquakes	Current Science, 79, 2000, 1334-1346
18. Mandal, P. , Padhy, S., Rastogi, B.K., Kousalya, M., Satyanarayana, H.V.S., Satyamurthy, C., Vijayraghavan, R., and Srinivasan, A.	Aftershock activity and low coda Q_c in the epicentral region of the 1999 Chamoli earthquake of M_w 6.4	Pure and Applied Geophysics, 158 (8/9), 2001, 1719-1735.
19. Rastogi, B.K., Gupta, H.K., Mandal, P. , Satyanarayana, H.V.S., Kousalya, M., Raghavan, R.V., Jain, R., Sarma, A.N.S., Kumar, N. and Satyamurthy, C.	The deadliest stable continental region earthquake that occurred near Bhuj on 26 January 2001	J. Seism. 5, 2001, 609-615
20. Rastogi, B.K., Mandal, P. , Satyamurthy, C., Kumar, N. and Nagehwar Rao, A.	Ground deformation, damage pattern and aftershock study of Bhuj earthquake	Proceedings of workshop on Chamoli and Bhuj earthquakes, Roorkee, 2001, pp. 51-60
21. Mandal, P. , Rastogi, B.K., Kousalya, M., Satyanarayana, H.V.S., Satyamurthy, C., Vijayraghavan, R., Srinivasan, A. and Murty, Y.V.V.B.S.N.	A fault model for the Chamoli earthquakes from aftershock studies	Himalayan Geology, 23 (1&2), 2002, 25-38.
22. Gupta, H.K., Mandal, P. and Rastogi, B.K.	How long triggered earthquakes at Koyna, India will continue?	Current Science, 82(2), 2002, 202-210
23. Mandal, P. , Rastogi, B.K., Sarma, C.S.P., Raju, P.S. and Kousalya, M.	Magnitude estimation of Koyna-Warna earthquakes, India	J. Seism, 6, 2002, 447-458
24. Rastogi, B. K., Mandal, P. and C. Satyamurthy	Intensity and aftershock studies of the 2001 Bhuj earthquake of M_w 7.7	Proc. 12 Symp. of Earthquake Engineers, Roorkee, V-I, 2002, 3-11.

25. Rastogi, B.K., Mandal, P. , Satyanarayana, H.V.S., Sarma, C.S.P., Kumar, N., Satyamurthy, C., Nageswar Rao, A. and Raju, I.P.	Southward migration of active areas and cascade type nucleation process: A possible explanation of the continued Koyna- Warna seismicity	Mem. Geol. Soc. Ind., 54, 2003, 43-62.
26. Mandal, P. , Rastogi, B. K, Satyanarayana, H. V. S, Kousalya, M, Vijayraghavan, R, Satyamurthy, C, Raju, I. P, Sarma, A. N. S and Kumar, N.	Characterization of the causative fault system for the 2001 Bhuj earthquake of Mw 7.7	Tectonophysics, 378, 2004, 105-121.
27. Mandal, P. , Rastogi, B. K., Satyanarayana, H. V. S., Kousalya, M	Results from Local Earthquake Velocity Tomography: Implications toward the Source Process Involved in Generating the 2001 Bhuj Earthquake in the Lower Crust beneath Kachchh (India)	Bull. Seism. Soc. Am., 94(2), 2004, 633-649.
28. Mandal, P. , Jainendra, S.Joshi, Sudesh Kumar, Rajendra Bhunia and B.K.Rastogi	Low coda- Q_c in the epicentral region of the 2001 Bhuj Earthquake of M_w 7.7	Pure and Applied Geophysics, 161, 2004, 1635-1654
29. Mandal, P. , R. Narsaiiah, R.K. Chadha and P.S. Raju	Coda duration Magnitude Scale of 2001 Bhuj Aftershocks, India	Current Science, 87 (5), 2004, 520-527.
30. Mandal, P. , Azeez O. Mabawonku and Vijay P. Dimri	Self-Organized Fractal Seismicity of Reservoir Triggered Earthquakes in the Koyna-Warna seismic zone, Western India	Pure and Applied Geophysics, 162, 2005, 73-90
31. Mandal, P. and B.K. Rastogi	Self-organized fractal seismicity and b-value of aftershocks of 2001 Bhuj earthquake in Kutch (India)	Pure and Applied Geophysics, 162, 2005, 53-72
32. Mandal, P. , R.K. Chadha, C. Satyamurthy, I.P. Raju and N. Kumar	Estimation of Site Response in Kachchh, Gujarat, India, region using H/V spectral ratios of aftershocks of the 2001 Mw 7.7 Bhuj Earthquake	Pure and Applied Geophysics, 162, 2005, 2479-2504.

33. Gupta, H.K., Mandal, P. , Satyanarayana, H.V.S., Kousalya, M., Rao, N.P., Uma Rani, Shashidhar, B. Sairam and Arun Kumar	An earthquake of M~5 may occur at Koyna	Current Science, 89(5), 2005, 747-748.
34. Gupta, H.K., Mandal, P. , Satyanarayana, H.V.S., Kousalya, M., Rao, N.P., Uma Rani, Shashidhar, B. Sairam and Arun Kumar	Earthquake at Koyna	Current Science, 89(11), 2005, 1785-1786.
35. Mandal, P. and J. Pujol	Seismic Imaging of the Aftershock Zone of the 2001 Mw 7.7 Bhuj Earthquake, India	Geophysical Research Letters, 33, L05309, 2006, doi:10.1029/2005GL0252 75. pp. 1-4
36. Mandal, P.	Sedimentary and crustal structure beneath Kachchh and Saurashtra regions, Gujarat, India	Physics of the Earth and Planetary Interiors, 155, 2006, 286-299.
37. Mandal, P. and A. Johnston	Estimation of source parameters for the aftershocks of the 2001 Mw 7.7 Bhuj earthquake, India	Pure and Applied Geophysics, 163, 2006, 1537-1560.
38. Mandal, P., S. Horton and J. Pujol	Relocation, Vp and Vp/Vs Tomography, Focal Mechanisms and other related studies using aftershock data of the Mw 7.7 Bhuj earthquake of January 26, 2001	J. Indian Geophys. Union, 10, 2006, 20-31
39. Mandal, P., R. Narsaiah, B. Sairam, C. Satyamurty and I.P. Raju	Relocation of early and late aftershocks of the 2001 Bhuj earthquake using joint hypocentral determination (JHD) technique: Implication toward the continued aftershock activity for more than four years	Pure and Applied Geophysics, 163, 2006, 1561-1581.

40. Gupta H., Shashidhar, D., Metilda, P., Mandal, P. , Dimri, V. P.	Prediction of M ⁴ Earthquake in the Koyna Region comes true	Jour. Geol. Soc. India, 68, 2006, 149-150.
41. Mandal, P. and S. Horton	Relocation of aftershocks, Focal Mechanisms and Stress Inversion: Implications toward the seismo-tectonics of the causative fault zone of Mw7.6 2001 Bhuj earthquake (India)	Tectonophysics, 429, 2007, 61-78.
42. Mandal, P.	Sediment Thicknesses and Q _s vs. Q _p relations in the Kachchh rift basin, Gujarat, India using S _p converted phases	Pure and Applied Geophysics, 164, 2007, 135-160.
43. Mandal, P. , R.K. Chadha, I.P. Raju, N. Kumar, C. Satyamurty and R. Narsaiah	Are the occurrences of the 7 th March 2006 Mw 5.6 event and the 3 rd February 2006 Mw 4.58 event triggered by the five years continued occurrence of aftershocks of the 2001 Mw 7.7 Bhuj event?	Current Science, 92(8), 2007, 1114-1124.
44. Mandal, P. , R.K. Chadha, I.P. Raju, N. Kumar, C. Satyamurty, R. Narsaiah and A. Maji	Coulomb static stress variations in the Kachchh, Gujarat, India: Implications for the occurrences of two recent earthquakes (Mw 5.6) in the 2001 Bhuj earthquake region	Geophysical Journal International, 168(1), 2007, 281-285.
45. Gupta H., Shashidhar, D., Metilda, P., Rao, N.P., Mandal, P. , Dimri, V.P.	Earthquake forecast appears feasible at Koyna, India	Current. Science, 93(6), 2007, 843-848.
46. Mandal, P. , R. K. Chadha, N.Kumar, I. P. Raju, and C. Satyamurty	Estimation of source parameters of the 8 th October 2005 Kashmir Earthquake of Mw 7.6	Current Science, 93(5), 2007, 660-668.
47. Mandal, P. , R. K. Chadha, N.Kumar, I. P. Raju, and C. Satyamurty	Source parameters of the deadliest 8 th October 2005 Kashmir Earthquake of Mw 7.6	Pure and Applied Geophysics, 164, 2007, 1963-1983.

48. Mandal, P. and R. K. Chadha	Three-dimensional velocity imaging of the Kachchh seismic zone, Gujarat, India	Tectonophysics, 452, 2008, pp. 1-16
49. Mandal, P.	Stress rotation in the Kachchh rift zone, Gujarat, India	Pure and Applied Geophysics, 165, 2008, 1307-1324.
50. Mandal, P., Dutta, U. and Chadha, R.K.	Estimation of Site Response in the Kachchh Seismic Zone, Gujarat, India	Bulletin of Seismological Society of America, 98(5), 2008, 2559-2566.
51. Mandal, P., Satyamurthy, C. and Raju, I.P.	Iterative de-convolution of the local waveforms: characterization of the seismic sources in Kachchh, India	Tectonophysics, 478, 2009, 143-157.
52. Mandal, P., Kumar, N., Satyamurthy, C. and Raju, I.P.	Ground motion attenuation relation from strong-motion records of the 2001 Mw 7.7 Bhuj Earthquake Sequence (2001-2006), Gujarat, India.	Pure and Applied Geophysics, 166, 2009, 451-469.
53. Mandal, P.	Crustal Shear wave splitting in the Epicentral Zone of the 2001 Mw 7.7 Bhuj Earthquake, Gujarat, India	Journal of Geodynamics, 47, 2009, 246-258.
54. Mandal, P.	Estimation of static stress changes after the 2001 Bhuj earthquake: Implications toward the northward spatial migration of the seismic activity in Kachchh, Gujarat	Journal Geological Society of India, 74, 2009, 487-497.
55. Mandal, P.	Three - dimensional modeling of intraplate stresses in the epicentral zone of the 21 May 1997 Jabalpur earthquake of Mw5.8, central India	Tectonophysics, 485, 2010, 1-8.
56. Mandal, P. and Pandey, O.P.	Relocation of aftershocks of the 2001 Bhuj earthquake: A new insight into seismotectonics of the Kachchh seismic zone, Gujarat, India	Journal of Geodynamics, 49, 2010, 254-260.
57. Mandal, P.	Crustal and lithospheric thinning beneath the seismogenic Kachchh rift zone, Gujarat (India): Its implications toward the generation of the 2001 Bhuj earthquake sequence	Journal of Asian Earth-sciences, 40, 2011, 150-161.

58. Mandal, P.	Upper mantle seismic anisotropy in the intra-continental Kachchh rift zone, Gujarat, India	Tectonophysics, 509, 2011, 81-92.
59. Mandal, P. and Dutta, U.	Estimation of Earthquake Source Parameters in the Kachchh Seismic Zone, Gujarat, India, from Strong Motion Network Data Using Generalized Inversion Technique	Bulletin of Seismological Society of America, 101(4), 2011, 1719-1731.
60. Mandal, P. and Pandey, O.P.	Seismogenesis of the lower crustal intraplate earthquakes occurring in Kachchh, Gujarat, India	Journal of Asian Earth-sciences, 42, 2011, 479-491.
61. Vedanti, N., Pandey, O.P., Srivastava, R.P., Mandal, P. , Kumar, S., and Dimri, V.P.	Predicting Heat Flow in the 2001 Bhuj Earthquake(Mw 7.7) Region of Kachchh (Western India), using an Inverse Recurrence Method	Non-linear Processes in Geophysics, 18, 2011, 611-625.
62. Mandal, P.	Passive source seismic imaging of the crust and upper mantle beneath the 2001 Mw7.7 Bhuj earthquake region, Gujarat, India	Bulletin of Seismological Society of America, 2012, 102(1), pp. 252-266.
63. Mandal, P. and Rodkin, M.V.	Seismic imaging of the 2001 Bhuj Mw7.7 earthquake source zone: b-value, fractal dimension and seismic velocity tomography studies	Tectonophysics, 2011, 512, 1-11.
64. Mandal, P.	Seismogenesis of the uninterrupted occurrence of the aftershock activity in the 2001 Bhuj earthquake zone, Gujarat, India, during 2001-2010	<i>Natural Hazards, 2012 (In Press).</i> DOI: 10.1007/s11069-012-0115-7
65. Mandal, P.	Local earthquake tomography, receiver function, surface wave dispersion and SKS-splitting studies: Implications toward the seismo-tectonics and Geodynamics of the Kachchh rift zone, Gujarat, India	Journal of Geol. Soc. of India, 2011 (In Press).

66. Mandal, P. and Rodkin, M.V.	A possible physical mechanism for the unusually long sequence of seismic activity following the 2001 Bhuj Mw7.7 earthquake, Gujarat, India	Tectonophysics, 2012, Doi:10.1016/j.tecto.2012.02.023
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d) Articles/abstracts published in seminars, symposia, conference volumes,

Names of all the authors	Title of the paper	Name of the Conferences/Symposia/Seminars, year and page
1. Mandal, P., Manglik, A. and Singh, R.N.	Two-dimensional modelling of intraplate stresses due to surface and subsurface loading in south Indian shield	In: 28 th Convention of Ind. Geophys. Union and Seminar on Geophysics for Rural Development, Dec 17-19, 1991, NGRI, Hyderabad. pp.40.
2. Manglik, A., Mandal, P. and Singh, R.N.	Models of sedimentary basin formation and their application to some Indian sedimentary basins	In: Signal processing and modelling of Geosignatures for the exploration of oil and natural gas}, Feb 27-29, 1992, B.H.U., Varanasi pp60.
3. Mandal, P. and Singh, R.N.	Near surface seismicity and thin-skinned thrust propagation in the Himalayan collisional zone. In: International Seminar on Himalayan Geology and Geophysics (New data and new approaches)	In: International Seminar on Himalayan Geology and Geophysics (New data and new approaches) Mar 22-25, 1993, Wadia Institute of Himalayan Geology, Dehradun, India, pp.91.
4. Mandal, P. and Singh, R.N.	Stress modelling of Deccan Flood Basalt Province	In: Group Discussion on 'Modeling in Earth Sciences with special reference to Tectonics and Volcanism in the Deccan Volcanic Province', NGRI, Hyderabad, April 27-29, 1993, pp.31
5. Mandal, P. and Singh, R.N.	A review of Stress modelling at convergent boundary.	In: Group Discussion on 'Geological Hazards in the Himalayan region: Assessment and Mitigation, Wadia Inst. Him. Geology, Dehradun, India, March 10-12, 1994.

<p>6. Mandal, P., Rastogi B.K., Chadha, R.K., Sarma, C.S.P., Raju, I.P. and Satyanarayana, H.V.S.</p>	<p>An analysis of source parameters for the microearthquakes around Koyna-Warna reservoirs, India</p>	<p>In: 1995 International Union of Geodesy and Geophysics (IUGG) meeting (IASPEI), Boulder, U.S.A., July</p>
<p>7. Mandal, P. and Singh, R.N</p>	<p>Intraplate-stresses associated with topography and crustal density inhomogeneities - A possible explanation for the intraplate seismicity of the Deccan Volcanic Province</p>	<p>In: 1995 International Union of Geodesy and Geophysics (IUGG) meeting (IASPEI), Boulder, U.S.A., July</p>
<p>8. Singh, R.N. and Mandal, P.</p>	<p>Thrust nucleation in a transversely isotropic crust with wedge shaped topography</p>	<p>In: 1995 International Union of Geodesy and Geophysics (IUGG) meeting (IASPEI)}, Boulder, U.S.A., July.</p>
<p>9. Gupta, H.K., Rastogi, B.K., Chadha, R.K., Sarma, C.S.P., Mandal, P. and Raju, I.P.</p>	<p>Continued seismicity at Koyna, India</p>	<p>In: 1995 International Union of Geodesy and Geophysics meeting (IASPEI), Boulder, U.S.A., July.</p>
<p>10. Rastogi, B.K., Chadha, R.K., Sarma, C.S.P. and Mandal, P.</p>	<p>Renewed seismicity around Koyna reservoir in India during 1993-94</p>	<p>In: 1995 International Union of Geodesy and Geophysics (IUGG) meeting (IASPEI), Boulder, U.S.A., July.</p>
<p>11. Rastogi, B.K., Mandal, P. and Gupta, H.K.</p>	<p>Enhanced Seismicity at Koyna during 1993-95</p>	<p>In: 1996 International Association of Seismology and Physics of the Earth's Interior (IASPEI) Regional Meeting (South Asia), Tangshen, China, April.</p>
<p>12. Mandal, P. and Singh, R.N.</p>	<p>Finite element simulations of 2-D intraplate stress distributions associated with topography and crustal-density inhomogeneities beneath the Kavali-Parnapalle DSS profile.</p>	<p>In: 1996 Association of Exploration Geophysics meeting, Hyderabad, India.</p>
<p>13. Mandal, P. and Rastogi, B.K.</p>	<p>A nucleation process model for moderate Koyna (India) earthquakes</p>	<p>In: Understanding and Predicting major volcanic and seismic hazards, held at Keele University, keele, U.K. during 14-19 April 1998</p>

14. Mandal, P. and Rastogi, B.K.	A frequency dependent coda Q relation for the Koyna earthquakes, India.	In: International Association of Seismology and Physics of the Earth's Interior (IASPEI), Thellishenki, Grece, 1997
15. Mandal, P., Rastogi, B.K. and Sarma, C.S.P.	Source Parameters of Koyna earthquakes, India	In: Chapman conference on "Stable continental region earthquakes", held at NGRI, Hyderabad, India during 25-29 January 1998
16. Mandal, P. and Rastogi, B.K.	A frequency dependent relation of coda Qc for Koyna region, India	In: Chapman conference on "Stable continental region earthquakes", held at NGRI, Hyderabad, India during 25-29 January 1998
17. Mandal, P. and Rastogi, B.K.	Foreshocks and Nucleation of small to moderate size Koyna earthquakes (India)	In: Chapman conference on "Stable continental region earthquakes", held at NGRI, Hyderabad, India during 25-29 January 1998.
18. Mandal, P.	3-D stresses induced by topography and crustal density inhomogeneities : Implications towards the seismo-genesis of stable continental region earthquakes of the Peninsular India	In: Chapman conference on "Stable continental region earthquakes", held at NGRI, Hyderabad, India during 25-29 January 1998.
19. Rastogi, B.K., Kumar, N. and Mandal, P.	Jabalpur earthquake of May 21, 1997 of Mw 5.8 and aftershocks.	In: Chapman conference on "Stable continental region earthquakes", held at NGRI, Hyderabad, India during 25-29 January 1998
20. Mandal, P. and B.K. Rastogi	Focal Depths and Mechanisms of Small Koyna Earthquakes from Local Earthquakes Centroid Moment Tensor Solutions	In: Asian Seismological Commission Meeting and Sym. Earthq. Hazard, NGRI, Hyderabad, Dec.1-3,1998, p. 73
21. Mandal, P. and B.K. Rastogi	Simulation of Crustal Phases of 1 February, 1994 Koyna Event of Mw 5.4 (India) for the Reliable Estimation of Focal Depth and Focal Mechanism.	In: Asian Seismological Commission Meeting and Sym. Earthq. Hazard, NGRI, Hyderabad, Dec.1-3,1998, p. 73

<p>22. Mandal, P., Rastogi, B.K., Kousalya, M., Satyanarayana, H.V.S., Satyamurty, C., Vijayraghavan, R., Srinivasan, A., and Murty, Y.V.V.B.S.N</p>	<p>A fault model for the Chamoli earthquakes from aftershock studies</p>	<p>In: Workshop on Chamoli earthquake and its impact, (WOCEI-99), WIHG, Dehradun, October 22-23, 1999, p. 36.</p>
<p>23. Mandal, P., Rastogi, B.K., Satyanaryana, H.V.S., Sarma, C.S.P., Satyamurty, C., Nageshwar Rao, A., Kumar, N. and Raju, I.P.</p>	<p>1999 Chamoli earthquake sequence: A progressive failure of a critically-stressed ramp/velocity heterogeneity on the detachment surface</p>	<p>In: Workshop on Chamoli and Bhuj Earthquakes, Roorkee Univ., May, 2001.</p>
<p>24. Mandal, P., B.K. Rastogi, H.V.S. Satyanaryana, C.S.P. Sarma, C. Satyamurty, A. Nageshwar Rao, Narendra Kumar and I.P. Raju</p>	<p>Rupture Nucleation of three Recent Moderate-size Koyna Earthquake Sequences: A Cascade Model for Foreshock Generation,</p>	<p>In: International Seminar on the role of geological surveys in the 21st century, GSI, Calcutta, 5-6 March 2001</p>
<p>25. Mandal, P., B. K. Rastogi, M. Kousalya, H.V.S. Satyanarayana, R. V. Raghavan, and A. Srinivasan</p>	<p>1999 Chamoli earthquake sequence: A progressive failure of a critically stressed ramp/velocity heterogeneity on the detachment surface</p>	<p>In: Int. Workshop on Seismic Tomography and Accurate Hypocenter locations, Orveido, Umbria, Italy, June, 2001.</p>
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Complete list of books, monographs etc. published.

Author	Name of the book	Title of the contributed chapter	Editors and (Publishers)	Pages
Dr. Prantik Mandal	Dynamics of Earth's Fluid System	Reservoir triggered seismicity (RTS): The role of reservoir loading, fluid pressure and pore pressure diffusion	Rai, S.N., Ramana, D.V. and Manglik, A. (Oxford & IBH Publishing Co. Pvt. Ltd., Delhi)	73-95