

**LIST OF PUBLICATIONS OF Prof. B N P AGARWAL**

**Papers to be communicated**

**Papers under review**

**Papers accepted for publication**

**Papers published**

85 **Agarwal, B. N. P.**, Srivastava, Shalivahan, 2009, Analyses of self-potential anomalies by conventional and extended Euler deconvolution techniques: Computers and Geosciences. doi:10.1016/j.jcageo.2009.03.005.

84 Srivastava, Shalivahan, **Agarwal, B. N. P.**, 2008, Interpretation of self-potential anomalies by Enhanced Local Wave number technique: Journal of Applied Geophysics. doi:10.1016/j.jappgeo.2008.11.011

83 **Agarwal, B. N. P.**, Srivastava, Shalivahan, 2008, FORTRAN codes to implement enhanced local wave number technique to determine the depth and location and shape of the causative source using magnetic anomaly: Computers and Geosciences, 34, 1843-1849 DOI information: 10.1016/j.cageo.2007.10.012

82. Shaw, R K, **Agarwal,, B N P** and Nandi, B K, **2007**, Use of Walsh transforms in estimation of depths of idealized sources from total-field magnetic anomalies: **Computers and Geosciences**, 33, 966-975.

81. **Agarwal, B N P** and Shaw, R K, **2005**, Applications of total gradients to interpret gravity/magnetic anomalies over 3D sources: Presented in the 67<sup>th</sup> EAGE Conference and Exhibition, Madrid, Spain, 13-16 June 2005 as paper H004.

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algorithm: **Computer and Geosciences**, 31, 513-520.

79. Lefort, J.-P and **Agarwal, B N P**, 2004, A new way to understand the origin of relief and particularly the genesis of the topography of the Armorican Massif (in French): *Bulletin de la Societe Geologique et Mineralogique de Bretagne, Serie D, No.1*, 11-19.

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76. Singh, V.P., Singh, O.P., **Agarwal, B.N.P.** and Shanker, D., 2003, Analysis of total magnetic anomalies over the north eastern marginal part of Deccan Traps and adjoining areas of Central India: **Acta Geophysica Polonica**, 51, 166-177.

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74. Roy, Lopamudra, Shaw, R. K. and **Agarwal, B N P**, 2002 Inversion of gravity anomalies over sedimentary basins: Applications of genetic algorithm and simulated annealing. **Presented in SEG International Exposition and 72<sup>nd</sup> Annual Meeting , Salt Lake city, Utah, 6-11 October .**

73. Lefort, J P and **Agarwal, B N P**, 2002 Topography of the Moho undulations in France from gravity data: their age and origin. **Tectonophysics**, 350, 193-213.

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69. **Agarwal, B N P**, 2001 Comments on "A modified Hilbert Transform and its application to self potential interpretation by N. Sundararajan and Y. Srinivas; Jour. Applied Geophysics, 36, 1996, 137-143", **Jour. Applied Geophysics**, 46, 213-214.

68. **Agarwal, B N P**, Shaw, R K and Das, L K, **2000** Applications of gravity anomalies in deep continental studies: **Research Highlights in Earth System Sciences , DST Special Volume, Eds. Varma O P & Mahadevan, T M, published by Indian Geological Congress, Roorkee, 187-198.**
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64. Roy, L, **Agarwal, B N P** and Shaw, R K, **1999** Resolution of interfering gravity anomalies: **Jour. Indian Geophy. Union**, 3(2), 1-5.
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58. Roy, L, **Agarwal, B N P** and Shaw, R K, **1999** Estimation of shape factor and depth from gravity anomalies due to some simple sources:**Geophysical Prospecting**, 47, 41-58.
57. Shaw, R K, **Agarwal, B N P**, and Nandi, B K, **1998** Walsh Spectra of gravity anomalies over some simple sources: **Jour. of Applied Geophysics**, 40, 179-186.

56. **Agarwal, B N P**, Das, L K and Shaw, R K, **1999** Gravity anomalies, tectonics and ore deposits: A predictive genetic model over the Aravallis, India: **Global Tectonics and Metallogeny**, 7(1), 47-51.
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54. **Agarwal, B N P**, Shaw, R K, Majumdar, M. and Basak, P., **1998** Development of techniques to interpret gravity data for deep continental studies: **NEWSLETTER, Deep Continental Studies (DST)**, 8(2), 11-13.
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47. Roy, L, Shaw, R K and **Agarwal, B N P**, **1997** Spectral analysis of gravity data over Gaussian subsurface relief: **Jour of Geophysics (AEG)**, 18, 131-135.
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## **Sponsored Projects Handled by Prof. B N P Agarwal**

### **(A) Sponsored Research Projects Completed and Reports submitted to DST**

1. Agarwal, B N P, 1994 Digital techniques of interpretation of potential field data 1988 - 1991, pp. 134, Cost Rs 2.935 lakhs.
2. Agarwal, B N P, Kumar, B and Shaw, R K, 1995 Development of softwares for determining crustal structure and their applications in analysing gravity field of Aravalli region, 1991-1995, pp. 111, Cost 10.91 lakhs.
3. Agarwal, B N P and Shaw, R K, 1999 Development of techniques to interpret gravity data for deep continental studies: 1995 - 1999, pp. 125, Cost Rs. 5.38 lakhs
4. Agarwal, B N P and Shaw, R K, 2003 Development of global optimization strategies to interpret gravity anomaly: 2000- June 2003, Cost 7.138 lakhs.