

## **About the Book**

*The resolution of regional and residual components arising out of the deeper and shallower sources from the observed bouguer gravity anomalies is an age- old problem. Several analytical techniques have been developed compute the residual. The common shortcoming of these methods is that the total data set is considered to evaluate the regional. As a result of this, a small proption of residual is left out in regional. In our new technique, the entire data set is no required for regional computation. Instead a square or a rectangle region is chosen and the gravity values at its corner and mid-side noders represent the regional. The weighted sum of these discrete gravity values yields the regional field. This technique has been tested for gravity data set in several fields and the performance in each case has been better than that obtained by the exsiting techniques.*

### **Contents:**

- 1. Introduction*
- 2. Regional and residual gravity anomalies: The existing issues*
- 3. New Computational schemes*
- 4. Applications to geological and environmental problems: Hydrocarbon*
- 5. Applications to geological and environmental problems: Minerals*
- 6. Gravity method in structural studies*
- 7. Isocratic studies and vertical crustal movements*
- 8. Earthquake studies and engineering application*
- 9. Gravity studies on impact structures*

