

Most of the naturally occurring solid compounds such as minerals, plants, herbs etc., are inorganic in nature. They exhibit different colours due to the presence of transition metal ions. Even though we know the composition of some minerals we can't understand the properties exhibited by them which are useful in many applications such as medicine, chemical industries, agriculture etc. For the characterisation of a mineral its structure is very important which determines the physical and chemical properties of the mineral. In order to explore the nature of metal ion and its bonding with surrounding ligands in a mineral, the spectroscopic techniques such as Electron Paramagnetic Resonance (EPR), Optical absorption and Near infrared spectroscopy (NIR) are used in the present study. This book covers the detailed investigations made on the minerals like dolomite, covellite which are obtained from Rayalaseema Zone of Andhra Pradesh, India and Coquimbo region, Chile respectively.



Sowjanya Gonuguntla  
Lakshmi Reddy Sanapareddy

# Exploration of Solid Compounds by Spectroscopic Methods

Dolomite, Covellite minerals



Sowjanya Gonuguntla

G.SOWJANYA, M.Sc., M.Phil., (Ph.D.), doing Ph.D in S.V. University, Tpt. She has 8 years of teaching experience in both U.G and P.G. She has to her credit 2 international publications, attended 2 international workshops. Presently working as Assistant Professor of Physics in MITS.



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