

The Practical Application of Electron Beam Devices in Mineralogy and Introducing Nesquehonite ($\text{MgCO}_3 + 3\text{H}_2\text{O}$) as a Rare Mineral in Eastern Part of Iran.

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Abstract : Electron microscopes (SEM, TEM) and electron microprobe (EPMA) are useful research equipments that can be used to examine the mineral raw materials and also their industrial products and definitely through the production process of transforming the minerals to industrial products. These are useful equipments, that can provide all the information about weakly crystalline minerals that could not be obtained by-X-rays methods (XRD,XRF), Determination Thermal Analysis (DTA) or optical microscopy. Particle size distribution - shape and crystalline size of minerals - texture and recognizing non crystalline phases and quantitative analysis of minerals and their products are just a few things of these equipments vast abilities.