

## **WORLD RAW MATERIALS PRODUCTION AND NECESSITY OF THEIR SPECIFIC NONDESTRUCTIVE CHARACTERIZATION**

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When we speak for the Nondestructive characterization usually this means that the subjects studied are metal and predominantly iron. In the most cases this means that investigated materials are comparatively homogenous materials with quite well known physical properties, composition and forming conditions (genesis). This is result of the human needs, because the most widespread materials are metal. From about one century it changed and the man “come back to stone age” again. Today usual rocks or industrial minerals in geological terms, permeate every segment of the society. They occur as components in durable and non-durable consumer goods, from construction of buildings to the manufacture of ceramic tables or sanitary ware but nevertheless they are unappreciated. Why man come to industrial minerals again? There are three main groups of reasons for this. The geological reasons are: 1) they are widespread; 2) enormous reserves; 3) their access. Economically: 1) their development needs less investments; 2) they are cheaper; 3) they are more effective. Technologically: 1) needs less processing; 2) needs less energy; 3) less technological effect to the environment; 4) very probable they possess exceptionally attractive properties for the industry. Obvious tendency of industrial minerals consumption increasing, define enlargement of nondestructive rocks evaluation services. The authors aim is on the basis of widespread nondestructive rocks evaluation to create rock physical properties data base, for the needs of: construction activity; industry; geological genetically reconstructions; natural and technogenic hazard assessments; nuclear and high toxic waste disposition; environment protection and many others.