

Download Annual Review Of Nmr Spectroscopy, Volume 13.

Nuclear magnetic resonance (NMR) is a physical phenomenon in which nuclei in a strong static magnetic field are perturbed by a weak oscillating magnetic field (in the near field and therefore not involving electromagnetic waves) and respond by producing an electromagnetic signal with a frequency characteristic of the magnetic field at the nucleus. This process occurs near resonance, when the ...Solid-state NMR (SSNMR) spectroscopy is a kind of nuclear magnetic resonance (NMR) spectroscopy, characterized by the presence of anisotropic (directionally dependent) interactions. The terms perceptions and satisfaction have often been used interchangeably (). This can lead to considerable conceptual confusion. Satisfaction is an example of a perception, but it is by no means the only example. 1. Introduction. Metallic structure corrosion is a natural process with huge economic losses as well as environmental consequences. Application of a physical layer, such as inorganic, organic or conversion coating, is the most efficient approach to protect against metallic corrosion and to minimize the massive corrosion losses, . Coatings can protect materials against aggressive environments

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