Periodic Nodal Surfaces: Their Generation, Analysis, and Application in Structural Chemistry (Paperback)

By Germar Rudolf

Castle Hill Services, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Periodic what? This thesis has many illustrations of three-dimensional space dividers of a wide range of symmetries, some simple, some complex, but many of them simply gorgeous to look at. And that is all most people can appreciate about this thesis. The rest is for a handful of experts, also called crystallography nerds, who look at life from their ivory tower perspective. They might understand what follows. The rest of humanity I ask to please pardon my ranting: Since the early 1970s relationships between the properties of periodic minimal surfaces (PMS) and a variety of phenomena from different disciplines of the natural sciences have been investigated. In the mid 1980s these investigations were expanded to encompass periodic potential surfaces (P0PS) and since the late 1980s also nodal surfaces (PNS). The concept of periodic nodal surfaces is, quite in contrast to both other methods, free of any physical implications and offers a broad variability while constraint by strict symmetry laws. One main focus of this thesis is the complete analysis of characteristic structure factors S(hkl) for the...

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