



Natural Fullerenes and Related Structures of Elemental Carbon

By Frans J. M. Rietmeijer

Springer Mai 2006, 2006. Buch. Book Condition: Neu. 235x155x23 mm. This item is printed on demand - Print on Demand Neuware - Observational, experimental and analytical data show that C60, larger fullerenes, and related structures of elemental carbon exist in interstellar space, meteorites, and on Earth and are associated with meteorite in impact events and in carbon-rich environments such as coals (shungite) and bitumen. The existence of natural fullerenes is at best contested and incompletely documented; realistically it is still controversial. Their presence in astronomical environments can be experimentally constrained but observationally they remain elusive. Fullerenes formation in planetary environments is poorly understood. They survived for giga-years when the environmental conditions were exactly right but even then only a fraction of their original abundance survived. Natural fullerenes and related carbon structures are found in interstellar space, in carbonaceous meteorites associated with giant meteorite impacts (including at the Cretaceous-Tertiary boundary) as well as in soot, coal and natural bitumen. This book provides an up-to-date summary of the state of knowledge on natural fullerenes occurrences and the laboratory techniques used to determine their presence at low concentration in rock samples. It demonstrates that natural fullerenes exist and should be searched for in...



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