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Abstract. Crystal engineering, the design of molecular solids, is the synthesis of functional solid-state structures from neutral or ionic building blocks, using intermolecular interactions in the design strategy. Hydrogen bonds, coordination bonds, and other less directed interactions define substructural patterns,...

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In conclusion, the future potential of the concepts of crystal engineering and particle design is considered in terms of predicting mechanical and processing properties from fundamental molecular ...

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Property design. The design of crystal structures with desired properties is the ultimate goal of crystal engineering. While major advances towards this have been made in coordination polymers, the application of successful strategies to design properties in purely organic solids is still limited.

Crystal engineering - Wikipedia

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Crystal engineering is the understanding of intermolecular interactions in the context of crystal packing and the utilization of such understanding in the design

b1072 Chapter-01.qxd 6/14/2011 9:48 AM Page 1 Crystal

1. Introduction Crystal engineering is the rational design of functional molecular solids.[1] This subject is of both fundamental and practical interest to solid-state and structural chemists, and

Crystal Engineering: A Holistic View

Desiraju3a of Crystal Engineering as "the understanding of intermolecular interactions in the context of crystal packing and the utilization of such understanding in the design of new solids with desired physical and chemical properties". Crystal engineering is a mainline interdisciplinary subject today that was started with organic solids and now

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