



# Aperiodic Structures in Condensed Matter: Fundamentals and Applications (Condensed Matter Physics)

By Enrique Macia Barber

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The book covers several topics dealing with the role of aperiodic order in numerous domains of the physical sciences and technology. It first presents the most characteristic features of various aperiodic systems. The author then describes theoretical aspects and useful mathematical approaches to properly study the physical systems. Focusing on applied issues, he discusses how to exploit aperiodic order in different technological devices. The author also examines one-, two-, and three-dimensional designs.

For those new to the field of aperiodic systems, this book is an excellent guide to the many facets and applications of aperiodic structures.

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### Editorial Review

#### Review

... This superb book introduces one to the science of aperiodic structures. I would recommend it to anyone with more than a fleeting interest in taking their education beyond that of the oft-treated-in-undergraduate-courses regular, infinitely repeating, crystal lattice or the periodic Fourier series expansion of repeat structures. Here we have a text which gently introduces the wonderful world of aperiodicity and then takes one on a stroll through some of the scientific examples of interest. ... an excellent book ... Unfamiliar concepts are introduced gently with some nice historical background and one is not often weighed down by too much technical detail. For postgraduate researchers who may wish to familiarise themselves with the fascinating world of aperiodicity, this is a must read.

?J.R. Sambles, *Contemporary Physics*, Vol. 51, Issue 4, July 2010

#### About the Author

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