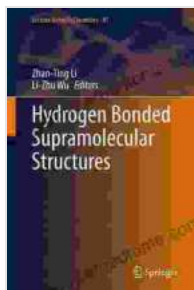


# Hydrogen Bonded Supramolecular Structures: A Comprehensive Guide

Hydrogen bonding is one of the most important intermolecular interactions in nature. It plays a crucial role in a wide variety of chemical and biological processes, from the structure of water to the recognition of DNA molecules. In recent years, there has been growing interest in the use of hydrogen bonding to create supramolecular structures, which are assemblies of molecules that are held together by non-covalent interactions.

**Hydrogen Bonded Supramolecular Structures: Lecture Notes in Chemistry 87** provides a comprehensive overview of this rapidly growing field. The book is divided into three parts:



## Hydrogen Bonded Supramolecular Structures (Lecture Notes in Chemistry Book 87)

★★★★☆ 4.2 out of 5

Language : English  
File size : 20686 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Print length : 361 pages  
Screen Reader : Supported



1. The first part introduces the basic concepts of supramolecular chemistry and discusses the different types of hydrogen bonds that can be used to create supramolecular structures.

2. The second part focuses on the synthesis and characterization of hydrogen bonded supramolecular structures.
3. The third part explores the applications of hydrogen bonded supramolecular structures in areas such as materials science, catalysis, and drug delivery.

## **Key Features**

\*

Comprehensive coverage of the synthesis, properties, and applications of hydrogen bonded supramolecular structures

\*

In-depth discussion of the different types of hydrogen bonds that can be used to create supramolecular structures

\*

Detailed descriptions of the methods used to characterize hydrogen bonded supramolecular structures

\*

Exploration of the applications of hydrogen bonded supramolecular structures in a wide range of fields

\*

Written by leading experts in the field

## **Audience**

This book is an essential resource for researchers and students working in the field of supramolecular chemistry. It is also a valuable reference for scientists who are interested in using hydrogen bonding to create new materials and devices.

## **Author**

**Professor Dr. Stefan Matile** is a full professor of chemistry at the University of Geneva, Switzerland. His research interests include the synthesis, characterization, and application of hydrogen bonded supramolecular structures. He is the author of over 500 scientific papers and several books.

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Structures \* Chapter 5: Applications of Hydrogen Bonded Supramolecular  
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## **Reviews**

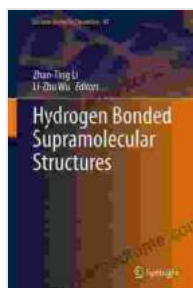
"This book is a comprehensive and up-to-date overview of the field of hydrogen bonded supramolecular structures. It is a valuable resource for researchers and students working in this area." - **Professor Dr. Jean-Marie Lehn, Nobel Laureate in Chemistry**

"This book is a must-read for anyone who is interested in the use of hydrogen bonding to create new materials and devices." - **Professor Dr.**

Fraser Stoddart, Nobel Laureate in Chemistry

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