



# Topology in Chemistry: Discrete Mathematics of Molecules

By D.H. Rouvray, R.B. King, Dennis H. Rouvray, R. Bruce King

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**Topology in Chemistry: Discrete Mathematics of Molecules** By D.H. Rouvray, R.B. King, Dennis H. Rouvray, R. Bruce King

This volume addresses a number of topological themes of direct relevance to chemists. Topological concepts are now regularly applied in wide areas of chemistry including molecular engineering and design, chemical toxicology, the study of molecular shape, crystal and surface structures, chemical bonding, macromolecular species such as polymers and DNA, and environmental chemistry. Currently, the design and synthesis of new drugs and agrochemicals are of especial importance. The book's prime focus is on the role played by topological indices in the description and characterisation of molecular species. The Wiener index along with a variety of other major topological indices, are discussed with particular reference to the powerful and much used connectivity indices. In this book an international team of leading experts review their respective fields and present their findings.

The considerable benefits offered by topological indices in the investigation of chemical problems in science, medicine, and industry are highlighted. The volume records proceedings of the Harry Wiener Memorial Conference on the Role of Topology in Chemistry, held at the University of Georgia in March 2001, and serves as a fitting tribute to the chemical contributions of the late Harry Wiener.

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### **Editorial Review**

#### **About the Author**

Dennis H. Rouvray, an adjunct senior research scientist at the University of Georgia and founder of the Journal of Mathematical Chemistry, is the author of over 30 titles including the bestselling Fuzzy Logic in Chemistry. R. Bruce King, regent's professor of chemistry at the University of Georgia, was editor-in-chief of the Encyclopedia of Inorganic Chemistry and the author of many books including Inorganic Main Group Element Chemistry and Beyond the Quartic Equation.

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