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Nota di contenuto	MIRROR-IMAGE ASYMMETRY; CONTENTS; PREFACE; LIST OF FIGURES AND BIOGRAPHIC PHOTOGRAPHS; 1 THE MIRROR IMAGE; HANDEDNESS; THE SYMMETRY OF NONSUPERIMPOSABLE MIRROR IMAGES; NOMENCLATURE FOR CHIRAL MOLECULES; NOMENCLATURE FOR DISSYMMETRIC AND OTHER CHIRAL MOLECULES; SUMMARY; SUGGESTIONS FOR FURTHER READING; REFERENCES; LIST OF BIOGRAPHIC PHOTOGRAPHS, SIDEBARS, AND FIGURES; 2 MOLECULAR CHIRALITY IN LIVING SYSTEMS; OPTICAL ROTATION; FROM BIOT TO PASTEUR; BIOCHEMICAL HOMOCHIRALITY; DETERMINATION OF ABSOLUTE STRUCTURES OF CHIRAL MOLECULES; SUMMARY; SUGGESTIONS FOR FURTHER READING; REFERENCES LIST OF BIOGRAPHIC PHOTOGRAPHS, SIDEBARS, AND FIGURES3 THE

ORIGIN OF CHIRALITY IN LIVING SYSTEMS; MUST LIFE BE CHIRAL?;
 MIRROR-IMAGE LIFE?; THE ORIGIN OF HOMOCHIRALITY IN LIVING
 SYSTEMS; EXTRATERRESTRIAL CHIRALITY; NUCLEAR CHIRALITY; OTHER
 EXTRATERRESTRIAL SOURCES; THE BEGINNING OF LIFE ON EARTH:
 BIOCHEMISTRY; GETTING STARTED IN THE RIGHT (OR LEFT) DIRECTION;
 SUMMARY; SUGGESTIONS FOR FURTHER READING; REFERENCES; LIST OF
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 EXAMPLES OF CHIRAL RECOGNITION AND DISCRIMINATIONSMELL;
 TASTE; COMMUNICATION; CHIRALITY AS A CONTROL MECHANISM IN
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 REFERENCES; LIST OF BIOGRAPHIC PHOTOGRAPHS, SIDEBARS, AND
 FIGURES; 5 CHIRALITY AND DRUGS; CHIRALITY IN NATURAL REMEDIES
 AND FOLK MEDICINES; ENANTIOMERIC DIFFERENCES IN NATURAL
 PRODUCTS; THALIDOMIDE AND REGULATION OF CHIRAL DRUGS;
 CHIRALITY AND DRUG ACTIVITY; IBUPROFEN; PROZAC; CIALIS; NEXIUM;
 LIPITOR; CHIRAL SWITCHING; EPHEDRINE, PSEUDOEPHEDRINE, AND
 METHAMPHETAMINE; PREPARATION OF PURE ENANTIOMERS; SUMMARY
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 SPORTS AND THE LEFT-HANDER; AMERICAN BASEBALL: THE CHIRAL
 SPORT; DRIVING ON THE LEFT OR RIGHT SIDE; WINDMILLS; SUMMARY;
 SUGGESTIONS FOR FURTHER READING; REFERENCES; LIST OF SIDEBARS
 AND FIGURES; 9 THE ASYMMETRIC UNIVERSE; LIST OF FIGURES;
 APPENDIX; BIOGRAPHY; INDEX

Sommario/riassunto

An overview of the importance and consequences of asymmetry from
 molecules to the macroscopic world As scientists have become more
 capable of probing the structure of three-dimensional objects at the
 molecular level, the need to understand the concept and the
 consequences of mirror-image asymmetry-chirality-has increased
 enormously. Written at an introductory level, Mirror-Image Asymmetry
 provides an overview of the importance and effects of asymmetry from
 the atomic and molecular world of physics and chemistry to the
 organisms and structures that we see and use in our everyday