

1. Record Nr.	UNINA9910784530703321
Autore	Wright John
Titolo	The ocean basins [[electronic resource]] : their structure and evolution // prepared by John Wright and David A. Rothery for the Course Team
Pubbl/distr/stampa	Oxford, [UK], : Butterworth-Heinemann Milton Keynes, England, : Open University, 1998, c1997
ISBN	1-281-07726-7 9786611077266 0-08-053793-6
Edizione	[2nd ed. /]
Descrizione fisica	1 online resource (191 p.)
Collana	Open University Oceanography
Altri autori (Persone)	RotheryDavid A BrownJoan (Joan E.)
Disciplina	551.46 551.4608
Soggetti	Submarine geology Paleoceanography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Designed so that it can be read on its own or studied as part of the Open University third-level course, S330 Oceanography"--P. [4] of cover. On p. facing t.p.: "Oceanography Course Team." 1st ed., 1989: prepared by an Open University course team [authors, Joan Brown ... et al.].
Nota di bibliografia	Includes bibliographical references (p. 161) and index.
Nota di contenuto	Front Cover; THE OCEAN BASINS: THEIR STRUCTURE AND EVOLUTION; Copyright Page; CONTENTS; ABOUT THIS VOLUME; ABOUT THIS SERIES; CHAPTER 1. INTRODUCTION; 1.1 MAPPING THE OCEANS; 1.2 MAPPING THE OCEAN FLOORS; 1.3 UNDERWATER GEOLOGY; 1.4 SUMMARY OF CHAPTER 1; CHAPTER 2. THE SHAPE OF OCEAN BASINS; 2.1 THE MAIN FEATURES OF OCEAN BASINS; 2.2 CONTINENTAL MARGINS; 2.3 OCEAN RIDGES; 2.4 TRANSFORM FAULTS AND FRACTURE ZONES; 2.5 THE DEEP OCEAN FLOOR; 2.6 SATELLITE BATHYMETRY- A CASE STUDY; 2.7 SUMMARY OF CHAPTER 2; CHAPTER 3. THE EVOLUTION OF OCEAN BASINS; 3.1 THE EVOLUTION OF OCEAN BASINS 3.2 THE BIRTH OF AN OCEAN 3.3 THE MAJOR OCEAN BASINS; 3.4 SUMMARY OF CHAPTER 3; CHAPTER 4. THE STRUCTURE AND

FORMATION OF OCEANIC LITHOSPHERE; 4.1 THE FORMATION OF OCEANIC LITHOSPHERE; 4.2 SEGMENTATION OF OCEANIC SPREADING AXES; 4.3 SEAMOUNTS AND VOLCANIC ISLANDS; 4.4 SUMMARY OF CHAPTER 4; CHAPTER 5. HYDROTHERMAL CIRCULATION IN OCEANIC CRUST; 5.1 THE NATURE OF HYDROTHERMAL CIRCULATION; 5.2 CHEMICAL CHANGES DURING HYDROTHERMAL CIRCULATION; 5.3 BLACK SMOKERS- AN EXERCISE IN PREDICTION; 5.4 THE EXTENT OF HYDROTHERMAL ACTIVITY; 5.5 MASS TRANSFER BY HYDROTHERMAL CIRCULATION
5.6 SUMMARY OF CHAPTER 5 CHAPTER 6. PALAEOCEANOGRAPHY AND SEA-LEVEL CHANGES; 6.1 THE DISTRIBUTION OF SEDIMENTS; 6.2 CHANGES IN SEA-LEVEL; 6.3 SUMMARY OF CHAPTER 6; CHAPTER 7. THE BROADER PICTURE; 7.1 THE GLOBAL CYCLE; 7.2 SOME RATES COMPARED; 7.3 SUMMARY OF CHAPTER 7; APPENDIX: THE STRATIGRAPHIC COLUMN; SUGGESTED FURTHER READING; ANSWERS AND COMMENTS TO QUESTIONS; ACKNOWLEDGEMENTS; INDEX

Sommario/riassunto

This is an invaluable textbook, prepared by the Open University team and designed so that it can be read on its own or as part of the OU course. This second edition has been fully revised and updated including new colour illustrations increasing the striking spread of full colour diagrams throughout the book. The clarity of the text has been improved, providing comprehensive coverage of the evolution of ocean basins and their structure in a clear, concise manner aimed specifically at the student market. In this second edition the technological advances in fields as diverse as:- deep