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Titolo	Subduction dynamics : from mantle flow to mega disasters // Gabriele Morra [and four others], editors
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Descrizione fisica	1 online resource (396 p.)
Collana	Geophysical Monograph ; ; 211
Disciplina	551.136
Soggetti	Subduction zones
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	""Title Page""; ""Table of Contents""; ""CONTRIBUTORS""; ""INTRODUCTION: The Impact of Subduction Dynamics on Mantle Flow, Continental Tectonics, and Seismic Hazard""; ""REFERENCES""; ""1 Evidence from Caustic Waveform Modeling for Long Slab Thickening above the 660-km Discontinuity under Northeast Asia: Dynamic Implications""; ""1.1. INTRODUCTION""; ""1.2. CAUSTIC WAVEFORM MODELING AND DATA SOURCES""; ""1.3. SLAB IMAGE IN THE MANTLE TRANSITION ZONE""; ""1.4. UNCERTAINTY ESTIMATES OF THICKNESS OF SLAB""; ""1.5. DYNAMIC SIMULATION OF SLAB THICKENING""; ""1.6. DISCUSSION AND DYNAMIC IMPLICATION""""1.7. CONCLUSIONS""; ""ACKNOWLEDGMENT""; ""REFERENCES""; ""2 The Continental Collision Process Deduced from the Metamorphic Pattern in the Dabie-Hongseong and Himalayan Collision Belts""; ""2.1. INTRODUCTION""; ""2.2. METAMORPHIC EVOLUTION ALONG THE DABIE-HONGSEONG COLLISION BELT IN NORTHEAST ASIA""; ""2.3. THE DABIE-SULU COLLISION BELT BETWEEN THE NCB AND SCB IN CHINA""; ""2.4. THE EXTENSION OF THE DABIE-SULU BELT IN CHINA INTO THE HONGSEONG AREA IN KOREA""; ""2.5. THE LATE-PERMIAN TO TRIASSIC COLLISION BELT IN KOREA""

""2.6. THE EXTENSION OF THE DABIE-HONGSEONG COLLISION BELT INTO JAPAN AND NORTH KOREA""""2.7. THE METAMORPHIC TREND ALONG THE DABIE-HONGSEONG COLLISION BELT""; ""2.8. METAMORPHIC EVOLUTION ALONG THE HIMALAYAN COLLISION BELT""; ""2.9. THE METAMORPHISM IN THE WESTERN HIMALAYAN COLLISION BELT""; ""2.10. THE METAMORPHISM IN THE MIDEASTERN HIMALAYAN COLLISION BELT""; ""2.11. THE METAMORPHISM IN THE EASTERN HIMALAYAN COLLISION BELT""; ""2.12. THE METAMORPHIC PATTERN ALONG THE HIMALAYA COLLISION BELT""; ""2.13. DISCUSSION AND TECTONIC IMPLICATION""; ""ACKNOWLEDGMENT""; ""REFERENCES""

""3 A New Tectonic Model for the Genesis of Adakitic Arc Magmatism in Cretaceous East Asia""""3.1. INTRODUCTION""; ""3.2. NUMERICAL MODELS""; ""3.3. RESULTS""; ""3.4. DISCUSSION""; ""3.5. CONCLUDING REMARKS""; ""ACKNOWLEDGMENT""; ""REFERENCES""; ""4 Incoming Plate Variations along the Northern Manila Trench: Implications for Seafloor Morphology and Seismicity""; ""4.1. INTRODUCTION""; ""4.2. GEOLOGICAL FRAMEWORK""; ""4.3. INCOMING PLATE VARIATION""; ""4.4. DISCUSSION""; ""4.5. CONCLUSION""; ""ACKNOWLEDGMENT""; ""REFERENCES""; ""5 Source of the Cenozoic Volcanism in Central Asia""

""5.1. INTRODUCTION""""5.2. PETROLOGICAL SETTING""; ""5.3. BUOYANCY DRIVEN VISCOUS INSTABILITIES""; ""5.4. NUMERICAL SIMULATIONS""; ""5.5. MODEL RESULTS""; ""5.6. DISCUSSION""; ""5.7. CONCLUSIONS""; ""ACKNOWLEDGMENT""; ""BIBLIOGRAPHY""; ""6 Influence of Variable Thermal Expansivity and Conductivity on Deep Subduction""; ""6.1. INTRODUCTION""; ""6.2. METHOD AND MODEL""; ""6.3. RESULTS""; ""6.4. DISCUSSION AND CONCLUSIONS""; ""ACKNOWLEDGMENT""; ""REFERENCES""; ""7 Slab-driven Mantle Weakening and Rapid Mantle Flow""; ""7.1. INTRODUCTION""; ""7.2. METHODS""; ""7.3. RESULTS""; ""7.4. DISCUSSION""

""7.5. CONCLUSIONS""

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2. Record Nr.	UNINA9910830829803321
Autore	Fink Johannes Karl
Titolo	Plastics process analysis, instrumentation, and control / / Johannes Karl Fink
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley : , : Scrivener, , [2021] ©2021
ISBN	1-5231-4373-8 1-119-79579-6 1-119-79580-X 1-119-79577-X
Descrizione fisica	1 online resource (ix, 402 pages)
Disciplina	624.171
Soggetti	Plastic analysis (Engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"This book focuses on plastics process analysis, instrumentation for modern manufacturing in the plastics industry. Process analysis is the starting point since plastics processing is different from processing of metals, ceramics, and other materials. Plastics materials show unique behavior in terms of heat transfer, fluid flow, viscoelastic behavior, and a dependence of the previous time, temperature and shear history which determines how the material responds during processing and its end use. Many of the manufacturing processes are continuous or cyclical in nature. The systems are flow systems in which the process variables, such as time, temperature, position, melt and hydraulic pressure, must be controlled to achieve a satisfactory product which is typically specified by critical dimensions and physical properties which vary with the processing conditions. Instrumentation has to be selected so that it survives the harsh manufacturing environment of high pressures, temperatures and shear rates, and yet it has to have a fast response to measure the process dynamics. At many times the measurements have to be in a non-contact mode so as not to disturb the melt or the finished product. Plastics resins are reactive systems.

The resins will degrade if the process conditions are not controlled.  
Analysis of the process allows one to strategize how to minimize  
degradation and optimize end-use properties."--

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