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Titolo	North American Continent-Ocean Transects Program [[electronic resource] /] / U.S. Geodynamics Committee, Board on Earth Sciences and Resources, Commission on Physical Sciences, Mathematics, and Resources, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1989
ISBN	1-280-21276-4 9786610212767 0-309-58235-0 0-585-08464-5
Descrizione fisica	1 online resource (101 p.)
Disciplina	551.8/0973
Soggetti	Geology, Structural - North America Continental margins - North America Plate tectonics - North America Electronic books. Earth Crust
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Titolo	Coagulation : kinetics, structure formation and disorders / / Anett M. Taloyan and David S. Bankiewicz, editors
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Altri autori (Persone)	TaloyanAnett M BankiewiczDavid S
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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 and index.
Nota di contenuto	Intro -- COAGULATION -- COAGULATION -- CONTENTS -- PREFACE -- A NEW APPROACH TO THE THEORY OF BROWNIAN COAGULATION AND DIFFUSION-LIMITED REACTIONS -- Abstract -- 1. Part 1. Brownian Coagulation Theory -- 1.1. Introduction -- 1.2. Diffusion Relaxation in Ensemble of Brownian Particles -- 1.3. Coagulation Rate Equation -- 1.3.1. Applicability of the Diffusion Approach to Particles Coagulation -- 1.3.2. Diffusion Mixing Condition -- 1.4. Kinetic Regime: High Collision Frequency (0 c) -- 1.5. Kinetic Regime: Low Collision Frequency (0 c) -- 1.5.1. Continuum Mode (Ra) -- 1.5.2. Free Molecular Mode (Ra) -- 1.5.3. Transition Mode (Ra) -- 1.5.4. Interpolation Formulas -- 1.5.5. Applicability Range of the Kinetic Approach -- 1.6. Next Approximation of the Random Walk Theory -- 1.6.1. Brownian Particles Coagulation -- 1.6.2. Heavy Vapor Molecules Condensation -- 1.7. Discussion -- CONCLUSION -- 2. Part 2. Diffusion-Limited Reaction Rate Theory -- 2.1. Introduction -- 2.2. Rate Equations -- 2.2.1. Applicability of the Diffusion Approach to Particles Collisions -- 2.2.2. Diffusion Mixing Condition -- 2.2.3. Applicability of the Reaction Rate Equation -- 2.3. Reaction Rate in 3-D Case -- 2.3.1. Continuum Mode (BAABBArrRaa,,) -- 2.3.2. Free Molecular Mode (BAABaaR,) -- 2.4. Reaction Rate in 2-D Case -- 2.5. Reaction Rate on 3-D Discrete Lattice -- 2.6. Reaction Rate on 2-D Discrete Lattice -- CONCLUSION -- APPENDIX -- ACKNOWLEDGMENTS

-- REFERENCES -- DEREGULATION OF COAGULATION DURING SEPSIS-INDUCED DISSEMINATED INTRAVASCULAR COAGULATION -- Abstract -- INTRODUCTION -- 1. Physiological Coagulation and Fibrinolysis -- 2. Overview of Sepsis -- 3. Overview of Disseminated Intravvascular Coagulation -- 4. Deregulation of Coagulation by Bacteria -- 5. Deregulation of Fibrinolysis by Bacteria -- 6. Coagulation Factor and Inhibitor Therapies.
CONCLUSION -- Authors' CONTRIBUTIONS -- ACKNOWLEDGEMENTS -- REFERENCES -- COAGULATION: KINETIC, STRUCTURE, FORMATION AND DISORDERS -- Abstract -- 1. Introduction -- 2. Kinetics of Coagulation Systems and Clot Formation -- 2.1. Primary Hemostasis -- 2.2. Coagulation Is Constituted by Interacting Elements -- 2.3. The Extrinsic Route of Coagulation -- 2.4. The Intrinsic Route of Coagulation -- 2.5. The Cellular Model of Coagulation -- 2.6. Activation of the Coagulation System -- 3. Kinetics -- 3.1. Coagulation and Inflammatory Components -- 3.2. Coagulation and Interaction with Endothelial Cells and Leukocytes -- 3.3. Cross-Talk between Clotting and Complement System (C) -- 4. Disorders -- 4.1. Thrombophilia -- 4.1.1. Acquired Factors Associated to Thrombosis -- 4.1.1.1. Procoagulant States and Their Association with Humoral Immunity -- 4.1.1.2. Concepts of Antibodies in Thrombophilia -- 4.2. Genetic Factors Associated to Thrombophilia -- 4.2.1. Deficiency of Antithrombin III -- 4.2.2. Deficiency of Protein C -- 4.2.3. Deficiency of Protein S -- 4.2.4. Mutation of Factor V -- 4.2.5. Mutation G20210A of Prothrombin -- CONCLUSION -- REFERENCES -- FLOC CHARACTERISTICS AND THE INFLUENCING FACTORS -- ABSTRACT -- 1. INTRODUCTION -- 2. MATERIALS AND METHODS -- 2.1. Coagulant Preparation and Characteristics -- 2.2. Water Samples -- 2.3. Jar Tests and Floc On-Line Monitor -- 3. CHARACTERIZATION OF FLOCS FORMED BY DIFFERENT AL-BASED COAGULANTS -- 3.1. Floc Formation, Breakage and Re-Growth -- 3.2. Effect of Shear Rate on Floc Size -- 3.3. Floc Fractal Structure Analysis -- 4. EFFECT OF PH ON FLOC PROPERTIES -- 4.1. Effect of PH on Coagulation Efficiency -- 4.2. Effect of PH on Floc Formation, Breakage and Re-Growth -- 4.3. Effect of PH on Floc Fractal Structures -- CONCLUSION -- REFERENCES.
SUBSTRATE INDUCED COAGULATION (SIC) IN AQUEOUS AND NON-AQUEOUS MEDIA FOR THE PREPARATION OF ADVANCED BATTERY MATERIALS -- Abstract -- 1.SubstrateInducedCoagulation(SIC) inAqueousandNon-aqueousMedia -- 1.1.DLVOTheory -- 1.2. SurfaceCharging -- 1.3.Zeta-Potential -- 2. TheStabilityofAqueousandNon-aqueousDispersions -- 2.1. StabilityofNon-aqueousDispersions -- 2.2.TraceWaterinNon-aqueousDispersions -- 2.3.CarbonBlackDispersions -- 2.3.1. CarbonBlackDispersionsinPolarMedia -- 2.3.2. CarbonBlackDispersionsinNon-polarMedia -- 2.4. TitaniaandAluminaDispersions -- 2.4.1. TitaniaandAluminaDispersionsinPolarMedia -- 2.4.2. TitaniaandAluminaDispersionsinNon-polarMedia -- 3. AdvancedBatteryMaterials -- 3.1. TheCathodeMaterialLithiumCobaltOxide -- 3.2. HighlyConductiveCompositeElectrodes -- 3.3.Core-ShellCathodeMaterials -- Acknowledgements -- References -- THE LABORATORY DIAGNOSIS OF THE PRE-PHASE OF PATHOLOGIC INTRAVASCULAR COAGULATION -- Abstract -- Introduction -- Hitherto Routine Hemostasis Tests for PIC Diagnosis -- New Routine Hemostasis Tests for Diagnosis of Early PIC -- IIa -Test -- Ultra-specific IIa Generation Tests -- Fibrinogen Function+Antigen+Ratio -- Undiluted Antithrombin III Activity (AT3) -- Active Endotoxin =

Endotoxin Reactivity -- Special Antigentic Parameters for PIC Diagnosis -- CONCLUSION -- REFERENCES -- NEONATAL COAGULATION PROBLEM -- Introduction to Coagulation Defect in Neonatal -- Platelet Defect in the Neonate -- Vascular Defect in the Neonate -- Coagulation Defect in the Neonate -- Thrombohemostatic Defect in the Neonate -- REFERENCES -- COAGULATION AND WALL SHEAR STRESS IN LIVING DONOR LIVER TRANSPLANTATION -- 1. Introduction -- 2. Shear Stress Theory and Liver Regeneration -- Following Phx -- 3. Concept of Immune System and Role of Shear Stress in Liver Regeneration Following Phx.
4. The Experimental and Clinical Data of Wall Shear Stress in the Liver -- Experimental Data -- A Comparison of the Phenotype of Cells Between the Liver and the Irrigation Solution. -- Abundance of NKT Cells in the Parenchymal Space of the Liver -- Clinical Data in LDLT -- Changes of Thymus-Derived Cells in the Graft Liver by the Perfusion of HTK -- Solution in LDLT -- Changes of NKT Cells Among CD3+T Cells in the Grafts Liver by the Perfusion of HTK Solusion in LDLT -- 5. Shear Stress and PAI-1 During Liver Regeneration Following Phx -- Flow-Induced Changes in Expression of the PAI-1 Gene in Hepatocytes -- Flow-Induced Changes in the Release of PAI-1 by Hepatocytes -- Shear Stress Dependency of Flow-Induced PAI-1 Expression -- 6. Blood Coagulation and Fibrinolytic Systems During Liver Regeneration in LDLT -- Patients and Methods -- Results -- 7. Heme Oxygenase-1 and Bilirubin Metabolism in Clinical LDLT -- Materials and Methods -- RESULTS -- Changes in Serum Total Bilirubin Following Adult LDLT -- Changes in D/T Ratio Following Adult LDLT -- Correlation Between Total Bilirubin and COHB Following Adult LDLT -- Augmentation of Heme Oxygenase-1 Expression in the Graft Immediately After Implantation in Adult LDLT -- CONCLUSION -- REFERENCES -- INDEX.

Sommario/riassunto

This book presents topical research in the study of the kinetics, structure formation and disorders related to coagulation. Topics discussed include Brownian coagulation and diffusion-limited reactions; deregulation of coagulation during sepsis-induced disseminated intravascular coagulation; substrate induced coagulation (SIC) in aqueous and non-aqueous media for the preparation of advanced battery materials and neonatal coagulation problems. (Imprint: Nova)