

1. Record Nr.	UNINA9910810461903321
Titolo	Porous media [[electronic resource] ] : heat and mass transfer, transport and mechanics / / Jose Luis Acosta and Andres Felipe Camacho, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-60741-401-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (267 p.)
Altri autori (Persone)	AcostaJose Luis CamachoAndres Felipe
Disciplina	620.1/169
Soggetti	Diffusion - Mathematical models Heat - Transmission - Mathematical models Porous materials - Industrial applications Porous materials - Mechanical properties
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	""POROUS MEDIA: HEAT AND MASSTRANSFER, TRANSPORT ANDMECHANICS""; ""NOTICE TO THE READER""; ""CONTENTS""; ""PREFACE""; ""MODELING REACTIVE TRANSPORT DRIVENBY SCALE DEPENDENT SEGREGATION""; ""ABSTRACT""; ""INTRODUCTION""; ""SEGREGATION""; ""SEGREGATION IN URBAN ATMOSPHERIC MODELING""; ""REACTIVE TRANSPORT AND FLOW MODELING""; ""THE TRANSPORT EQUATION""; ""TRANSPORT MODELING""; ""BIMOLECULAR REACTIVE TRANSPORT""; ""NUMERICAL SIMULATIONS""; ""SEGREGATION INTENSITY MODEL""; ""APPLYING THE MODEL: EXAMPLES AND DISCUSSION""; ""REFERENCES"" ""INDUCED POROELASTIC AND THERMOELASTICSTRESS CHANGES WITHIN RESERVOIRS DURINGFLUID INJECTION AND PRODUCTION"" ABSTRACT""; ""1. INTRODUCTION""; ""2. STRESS CHANGE MEASUREMENT""; ""STRESS ARCHING EFFECTS""; ""3.1. Introduction""; ""3.2. Poroelastic Arching Ratios""; ""3.3. Thermoelastic Arching Ratios""; ""4. INDUCED STRESS CHANGE MODELING""; ""4.1. Background""; ""4.2. Elasticity Field Equations""; ""4.3. Theory of Strain Nuclei""; ""4.4. Theory of Inclusions""; ""5. THEORY OF INHOMOGENEITIES""; ""6. CASE STUDY: EKOFISK OIL FIELD""; ""6.1.

## Reservoir Characteristics"

"6.2. Geomechanical Properties""6.3. Induced Stress Change Analysis"; "7. CONCLUSION"; "8. NOMENCLATURE"; "REFERENCES"; "POROUS HYDROGELS"; "ABSTRACT"; "ABBREVIATIONS"; "1. INTRODUCTION"; "2. CLASSIFICATION OF THE POROUS HYDROGELS BY PORE SIZE"; "3. PREPARATIVE METHODS FOR POROUS HYDROGELS"; "3.1. Crosslinking Polymerization in the Presence of Substances that Are Solvents for Monomers, but Precipitants for Formed Polymer"; "3.2. Crosslinking Polymerization in Presence of Soluble Substances (Particles of Sugars, Salts) which Are Washed out from the Hydrogel after Polymerization"; "3.3. Crosslinking Polymerization in the Presence of Substances Releasing Gases which Remain in the Resulting Hydrogel"; "3.4. Freeze-Sublimation of the Hydrogel Swollen in Water (Lyophilization of Swollen Hydrogel)"; "4. CHARACTERIZATION OF POROUS HYDROGELS"; "4.1. Mercury Porosimetry"; "4.2. BET Surface Area Measurements"; "4.3. Scanning Electron Microscopy (SEM)"; "4.4. Confocal Microscopy"; "4.5. Diffusion Properties"; "4.6. Mechanical Properties"; "5. MODIFICATION OF POROUS HYDROGELS"; "6. AUTHOR'S EXPERIENCE WITH POROUS HYDROGELS PREPARED IN THE PRESENCE OF POROGEN PARTICLES"; "6.1. Porous Hydrogels (According to 3.2.) for Tissue Engine"; "6.2. Characterization of the Porous Hydrogels Prepared According to 3.2"; "6.3. Characterization of through-Flow Properties of the Hydrogels with Communicating Pores"; "7. PERSPECTIVE"; "ACKNOWLEDGMENTS"; "8. REFERENCES"; "MONTE CARLO SIMULATIONS FOR THE STUDY OF DIFFUSION-LIMITED DRUG RELEASE FROM POROUS MATRICES"; "ABSTRACT"; "INTRODUCTION"; "SOME DRUG RELEASE KINETIC EQUATIONS"

---