

1. Record Nr.	UNINA9910456510003321
Titolo	Progress in porous media research [[electronic resource] /] / Kong Shuo Tian and He-Jing Shu, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-61668-302-3
Descrizione fisica	1 online resource (594 p.)
Altri autori (Persone)	TianKong Shuo ShuHe-Jing
Disciplina	620.1/16
Soggetti	Porous materials Porosity Electronic books.
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	<p> ""PROGRESS IN POROUS MEDIA RESEARCH ""; ""PROGRESS IN POROUS MEDIA RESEARCH ""; ""CONTENTS ""; ""PREFACE ""; ""RESEARCH AND REVIEW STUDIES""; ""ADVANCES IN SYNTHESIS AND APPLICATIONS OF ORDERED POROUS MATERIALS ""; ""ABSTRACT""; ""1. INTRODUCTION ""; ""2. ZEOLITES ""; ""3. MESOPOROUS SILICA MATERIALS ""; ""4. ORDERED MESOPOROUS CARBON ""; ""5. NON-SILICEOUS MESOPOROUS MATERIALS ""; ""6. MESOPOROUS ZEOLITE ""; ""7. LAYERED CLAY MATERIALS""; ""CONCLUSION AND FUTURE PROSPECTIVE ""; ""REFERENCES ""; ""HEAT AND MASS TRANSFER IN POROUS MEDIA UNDER PHASE TRANSITION CONDITIONS: FREEZING OF SOILS "" ""ABSTRACT """"1. INTRODUCTION ""; ""2. THE PRINCIPAL TRANSFER MECHANISMS ""; ""3. EQUATIONS OF THE HEAT AND MASS TRANSFER PROCESS IN MULTIPHASE POROUS MEDIA""; ""4. FREEZING OF SOIL: THREE-ZONE MODEL ""; ""CONCLUSION ""; ""REFERENCES ""; ""APPENDIX. THE SYSTEM OF EQUATIONS (4.44)a€?(4.46) ""; ""TRANSIENT INFINITE ELEMENT THEORY FOR SIMULATING HEAT TRANSFER AND MASS TRANSPORT PROBLEMS IN FLUID-SATURATED POROUS MEDIA OF INFINITE DOMAINS ""; ""ABSTRACT ""; ""1. INTRODUCTION "" ""2. FUNDAMENTAL THEORY OF TRANSIENT INFINITE ELEMENTS FOR SIMULATING MASS TRANSPORT PROBLEMS IN FLUID-SATURATED POROUS MEDIA OF INFINITE DOMAINS""""3. FUNDAMENTAL THEORY OF </p>

TRANSIENT INFINITE ELEMENTS FOR SIMULATING HEAT TRANSFER PROBLEMS IN FLUID-SATURATED POROUS MEDIA OF INFINITE DOMAINS
"; "4. VERIFICATION OF THE PROPOSED TRANSIENT INFINITE ELEMENTS FOR SIMULATING MASS TRANSPORT AND HEAT TRANSFER PROBLEMS IN FLUID-SATURATED POROUS MEDIA OF INFINITE DOMAINS
"; "5. CONCLUSIONS AND DISCUSSIONS"; "ACKNOWLEDGMENTS ";
"REFERENCES "
"NUMERICAL SIMULATION OF FLUID FLOW AND HEAT TRANSFER IN POROUS MEDIA""
"ABSTRACT "; "NOMENCLATURE"; "1.1. INTRODUCTION "; "1.2. LATTICE BOLTZMANN SIMULATION OF FLUID FLOWS IN POROUS MEDIA "; "1.3. SIMULATION OF HEAT CONDUCTION IN POROUS MEDIA USING THE FINITE VOLUME METHOD (FVM) "; "1.4. LATTICE BOLTZMANN SIMULATION OF FLOW-SOLID COUPLING HEAT TRANSFER IN POROUS MEDIA "; "CONCLUSIONS ";
"ACKNOWLEDGMENTS"; "REFERENCES "; "MODELING OF TRANSPORT PHENOMENA IN POROUS MEDIA USING NETWORK MODELS ";
"ABSTRACT "; "INTRODUCTION "
"PART A a€? REVISION OF NETWORK MODELS PROPOSED IN LITERATURE ""
"NETWORK MODELS a€? TYPES AND CHARACTERIZATION "; "FLUID FLOW MODELING "; "MASS TRANSPORT MODELING ";
"PART B - NETWORK MODEL PROPOSED "; "NETWORK MODEL ";
"HYDRODYNAMIC MODEL "; "MASS TRANSPORT "; "CONCLUSION ";
"REFERENCES "; "ADVANCES IN INTEGRATED MODELING OF MASS TRANSPORT AND GEO-MECHANICS IN COAL SEAMS FOR CO2 GEO-SEQUESTRATION "; "ABSTRACT "; "NOTATION "; "INTRODUCTION";
"EXPERIMENTAL EQUIPMENT AND PROCEDURE FOR CO2 GEO-SEQUESTRATION "
"COAL SPECIMEN PREPARATION AND SURFACE CHARACTERISATION"
