1. Record Nr. UNINA9910455823603321

Titolo	Visionary manufacturing challenges for 2020 [[electronic resource] /] / Committee on Visionary Manufacturing Challenges, Board on Manufacturing and Engineering Design, Commission on Engineering and Technical Systems, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1998
ISBN	1-282-08177-2 9786612081774 0-309-52290-0 0-585-04719-7
Descrizione fisica	1 online resource (172 p.)
Disciplina	658.5/7
Soggetti	Research, Industrial - United States - Planning Production management - Technological innovations - United States Concurrent engineering - United States 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 (p. 66) and index.
Nota di contenuto	""Front Matter""; ""Acknowledgments""; ""Preface""; ""Contents""; ""Tables, Figures, and Boxes""; ""Executive Summary""; ""1 The 2020 Vision""; ""2 Grand Challenges for Manufacturing""; ""3 Priority Technologies and Supporting Research""; ""4 Preparing for 2020""; ""References""; ""APPENDIX A Summary of Workshop on Visionary Manufacturing Challenges""; ""APPENDIX B Delphi Survey: Methodology and Results""; ""APPENDIX C Delphi Survey Questionnaires""; ""APPENDIX D Biographical Sketches of Committee Members""

2. 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	""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

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""