1. Record Nr. UNINA9910965910003321

Titolo	Building an effective environmental management science program : final assessment / / Committee on Building an Environmental Management Science Program, Virtual Commission on Environmental Management Science, National Research Council
Pubbl/distr/stampa	Washington, DC, : National Academy Press, 1997
ISBN	9786610191819 9780309174893 0309174899 9781280191817 1280191813 9780309561624 0309561620 9780585002439 0585002436
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1 volume (various pagings))
Disciplina	363.7/05
Soggetti	Environmental management - Research - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This work was sponsored by the U.S. Department of Energy, Contract No. DE-FC01-94EW54069/R."--t. p. verso.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	BUILDING AN EFFECTIVE ENVIRONMENTAL MANAGEMENT SCIENCE PROGRAM: -- Copyright -- PREFACE -- Contents -- SUMMARY -- VALUE OF EMSP TO THE DOE CLEANUP MISSION -- DEVELOPMENT OF AN EMSP SCIENCE PLAN -- COORDINATING THE INVESTMENT IN BASIC RESEARCH -- BROADENING THE INVESTIGATOR COMMUNITY -- PROPOSAL SELECTION PROCESS -- PROGRAM FUNDING -- ROLE OF "STAKEHOLDERS" IN PROPOSAL REVIEW AND SELECTION -- LONG-TERM MANAGEMENT STRATEGIES -- MAINTAINING PROGRAM QUALITY -- ASSESSING OUTCOMES -- APPLYING RESULTS OF BASIC RESEARCH TO THE CLEANUP MISSION -- 1 INTRODUCTION AND BACKGROUND -- INITIAL ASSESSMENT REPORT -- LETTER REPORT -- FOCUS OF THIS REPORT -- LIMITATIONS OF THIS REPORT -- SOURCES OF

INFORMATION FOR THIS REPORT -- 2 VALUE OF THE EMSP TO THE CLEANUP MISSION -- 3 EMSP SCIENCE PLAN -- RATIONALE FOR DEVELOPING A SCIENCE PLAN FOR THE EMSP -- CONTENT OF AND PROCESS FOR DEVELOPING THE SCIENCE PLAN -- COORDINATING THE INVESTMENT IN BASIC RESEARCH -- BROADENING THE INVESTIGATOR COMMUNITY -- 4 PROPOSAL SELECTION AND FUNDING -- PROPOSAL REVIEW PROCESS -- PROGRAM FUNDING -- ROLE OF STAKEHOLDERS IN PROPOSAL REVIEW AND SELECTION -- 5 MANAGEMENT OF THE EMSP -- LONG-TERM MANAGEMENT STRATEGIES -- MAINTAINING PROGRAM QUALITY -- ASSESSING OUTCOMES -- APPLYING THE RESULTS OF BASIC RESEARCH TO CLEANUP -- APPENDIXES -- APPENDIX A STATEMENT OF TASK -- ACTIVITY #1: FY97 RESEARCH PROGRAM -- ACTIVITY #2: SCIENCE AND MANAGEMENT NEEDS -- Science Needs -- Management Needs -- APPENDIX B LIST OF PRESENTATIONS -- APPENDIX C BIOGRAPHICAL SKETCHES OF COMMITTEE MEMBERS AND CONSULTANTS -- CONSULTANTS -- APPENDIX D SUPPLEMENTARY STATEMENT -- APPENDIX E RESPONSE TO SUPPLEMENTARY STATEMENT IN APPENDIX D -- APPENDIX F INITIAL ASSESSMENT REPORT -- COMMITTEE ON BUILDING AN ENVIRONMENTAL MANAGEMENT SCIENCE PROGRAM -- Staff -- VIRTUAL COMMISSION ON ENVIRONMENTAL MANAGEMENT SCIENCE -- Staff.
PREFACE -- CONTENTS -- SUMMARY -- INTRODUCTION AND BACKGROUND -- THE DOE CLEANUP MISSION -- THE VALUE OF RESEARCH TO THE CLEANUP MISSION -- UTILIZING THE CAPABILITIES OF THE RESEARCH INFRASTRUCTURE -- Attracting the Best Researchers -- Obtaining the Best Research -- Transferring Research Results to Potential Research Users -- COORDINATION WITH OTHER FEDERAL AND NONFEDERAL RESEARCH PROGRAMS -- FY 1996 PROGRAM PRIORITIES AND SOLICITATION -- FY 1997 PROGRAM -- FUTURE ACTIVITIES OF THE COMMITTEE -- REFERENCES -- APPENDIX A -- APPENDIX B -- Purpose -- Representative Research Areas -- Preapplications -- Information -- Background -- References for Background Information on the Mission Responsibilities of the Office of Environmental Management -- APPENDIX C -- APPENDIX D -- CONSULTANTS -- APPENDIX E ACRONYMS -- APPENDIX G -- APPENDIX H ACRONYMS.

Sommario/riassunto

Assesses the Department of Energy's Environmental Management Science Program - a program that funds basic research related to environmental cleanup of the department's weapons complex. This book also provides recommendations on long-term challenges and opportunities for the program.

2. Record Nr. UNINA9910966494803321

Titolo	Biochemical physics research trends / / Sergei D. Varfolomeev ... [et al.], editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2009
ISBN	1-61728-150-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (97 p.)
Altri autori (Persone)	VarfolomeevSergei Dmitrievich
Disciplina	572/.43
Soggetti	Physical biochemistry
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 -- BIOCHEMICAL PHYSICS RESEARCH TRENDS -- BIOCHEMICAL PHYSICS RESEARCH TRENDS -- CONTENTS -- PREFACE -- Chapter 1 ELASTIC CAPSULE FILLED WITH MAGNETIC FLUID IN AN ALTERNATIVE MAGNETIC FIELD -- ABSTRACT -- INTRODUCTION -- EXPERIMENTAL RESULTS -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 2 INFLUENCE OF PRESENCE OF FOREIGN SURFACES ON STABILITY OF MAGNETIC FLUIDS -- ABSTRACT -- INTRODUCTION -- MATERIALS AND METHODS -- RESULTS AND DISCUSSION -- CONCLUSION -- REFERENCES -- Chapter 3 CELL MEMBRANE STRUCTURE AND THYROLIBERIN PHYSIOLOGICAL ACTIVITY -- ABSTRACT -- INTRODUCTION -- EXPERIMENTAL -- RESULTS AND DISCUSSION -- CONCLUSIONS -- REFERENCES -- Chapter 4 QUANTUM CHEMICAL CALCULATION OF MOLECULE 6-METILPERGIDROTETRALIN -- ABSTRACT -- AIMS AND BACKGROUND -- RESULTS OF CALCULATIONS -- CONCLUSIONS -- LENGTHS OF CONNECTIONS AND VALENT CORNERS OF A MOLECULE 6-METILPERGIDROTETRALIN -- REFERENCES -- Chapter 5 QUANTUM CHEMICAL CALCULATION OF MOLECULE 7-METILPERGIDROTETRALIN -- ABSTRACT -- AIMS AND BACKGROUND -- RESULTS OF CALCULATIONS -- CONCLUSIONS -- LENGTHS OF CONNECTIONS AND VALENT CORNERS OF A MOLECULE 7-METILPERGIDROTETRALIN -- REFERENCES -- Chapter 6 ABOUT A GEOMETRICAL AND ELECTRONIC STRUCTURE OF A MOLECULE GOPAN -- ABSTRACT -- AIMS AND BACKGROUND -- RESULTS OF CALCULATIONS -- CONCLUSIONS -- REFERENCES --

Chapter 7 ABOUT A GEOMETRICAL AND ELECTRONIC STRUCTURE OF A MOLECULE DIAGOPAN -- ABSTRACT -- AIMS AND BACKGROUND -- RESULTS OF CALCULATIONS -- CONCLUSIONS -- REFERENCES -- Chapter 8 SELECTIVE OXIDATION OF ETHYLBENZENE WITH DIOXYGEN INTO -PHENYLETHYLHYDROPEROXIDE. MODIFICATION OF CATALYST ACTIVITY OF NI(II) AND FE(III) COMPLEXES UPON ADDITION OF QUATERNARY AMMONIUM SALTS AS EXOLIGANDS -- ABSTRACT -- INTRODUCTION.
1. APPLICATION OF AMMONIUM QUATERNARY SALTS AS LIGANDS-MODIFIERS FOR INCREASE OF M(ACAC)N ACTIVITY IN REACTION OF SELECTIVE OXIDATION OF ETHYLBENZENE TO PEH -- 2. PARTICIPATION OF CATALYSTS ACTIVE FORMS IN ELEMENTARY STAGES OF RADICAL-CHAIN ETHYLBENZENE OXIDATION CATALYZED BY {M(L1)2+R4NBR} (M=NI(II), FE(III), L1=ACAC-1) -- REFERENCES -- Chapter 9 INFLUENCE OF LOW-TOXICITY CHEMICAL AGENTS AT LOW DOSES ON OXIDATIVE PROCESSES IN LIVER OF MICE -- ABSTRACT -- AIMS AND BACKGROUND -- EXPERIMENTAL -- RESULTS AND DISCUSSION -- REFERENCES -- Chapter 10 FREE-RADICAL MECHANISM OF CHITOSAN RADIATION DEGRADATION AND PROBLEMS OF CELL PROTECTION -- ABSTRACT -- INTRODUCTION -- ON FREE-RADICAL MECHANISM OF CHITOSAN RADIOLYSIS -- Radiolysis of Glucosamine (GA) -- Radicals of Glucosamine -- Radiolysis of Acetamid -- Radiolytic Properties of Heparin -- CHITOSAN RADIATION CHEMISTRY -- Mechanism of Chitosan Radiolysis -- The Free-Radicals Structure and Transformations of Them -- ON MECHANISMS OF CELL PROTECTION BY CHITOSAN -- Chitosan in a Role of DNA Protector -- On Chitosan Radioprotection of a Membrane -- REFERENCES -- INDEX -- Blank Page.

Sommario/riassunto

This book presents recent research in Chemical and Biochemical physics. Chemical physics addresses a large range of problems. An effective chemical physicist is a "jack-of-all-trades," able to apply the principles and techniques of the field to everything from high-tech materials to biology. Just as the fields of chemistry and physics have expanded, so have chemical physics subject areas, which include polymers, materials, surfaces/interfaces, and biological macromolecules, along with the traditional small molecule and condensed phase systems. Biochemical Physics is a science that joins the three natural sciences biology, chemistry and physics into one comprehensive study. N.M. Emanuel pioneered this science over fifty years ago. This book presents papers, written by Emanuel's students, that reveal recent developments in this interesting field.