Record Nr. UNINA9910456248303321 Isotopes for medicine and the life sciences [[electronic resource] /] / **Titolo** Committee on Biomedical Isotopes, Division of Health Sciences Policy, Institute of Medicine; S. James Adelstein and Frederick J. Manning, editors Pubbl/distr/stampa Washington, D.C., : National Academy Press, 1995 **ISBN** 1-280-19321-2 9786610193219 0-309-58764-6 0-585-02392-1 Descrizione fisica 1 online resource (x, 132 pages): illustrations, map Altri autori (Persone) AdelsteinS. J ManningFrederick J Disciplina 616.07/575 Soggetti Radioisotopes in medical diagnosis - United States Radioisotopes - Therapeutic use - United States Life sciences - Research - United States Radioisotopes in research - United States Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references. Nota di bibliografia ""Isotopes for Medicine and the Life Sciences""; ""Copyright""; Nota di contenuto ""Preface""; ""Contents""; ""Executive Summary""; ""ENRICHED STABLE ISOTOPES"": ""REACTOR-PRODUCED RADIONUCLIDES""; ""ACCELERATOR-PRODUCED RADIONUCLIDES""; ""PUBLIC-PRIVATE PARTNERSHIP MODELS FOR NBTF"": ""A NATIONAL ISOTOPE POLICY""; ""1 Introduction""; ""CHARGE TO THE COMMITTEE""; ""PLAN OF THE REPORT"": ""REFERENCES"": ""2 Enriched Stable Isotopes"": ""HISTORICAL PERSPECTIVE""; ""CURRENT APPLICATIONS IN MEDICINE AND PHYSICAL AND LIFE SCIENCES""; ""ISOTOPE SEPARATION IN THE UNITED STATES""; ""FUTURE SUPPLIES""

""NEW AND ALTERNATIVE SEPARATION TECHNOLOGIES"""

CONCLUSIONS""; ""RECOMMENDATIONS""; ""REFERENCES""; ""3 Reactor-Produced Radionuclides""; ""HISTORICAL PERSPECTIVE""; ""CURRENT

APPLICATIONS IN MEDICINE AND PHYSICAL AND LIFE SCIENCES"": ""SUPPLIES AND SUPPLIERS""; ""Molybdenum-99""; ""Current Sources""; ""Future Sources""; ""Research and Development on Alternative Sources""; ""Other Commercial Radionuclides""; ""Research Radionuclides""; ""Market Analyses""; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""REFERENCES""; ""4 Accelerator-Produced Radionuclides and a National BiomedicalTracer Facility"" ""HISTORICAL PERSPECTIVE""""CURRENT APPLICATIONS IN MEDICINE AND PHYSICAL AND LIFE SCIENCES"": ""SUPPLIES AND SUPPLIERS"": ""Commercially Available Radioisotopes""; ""Short-Lived Radioisotopes for PET""; ""Radionuclides Currently Produced at DOE Facilities""; ""BLIP"": ""LAMPF"": ""TRIUMF"": ""Future Production"": ""Proposed NBTF""; ""Upgraded BLIP""; ""In-House Research and Education at the NBTF""; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""REFERENCES""; ""5 Public-Private Partnership Models for NBTF""; ""THE DOE ISOTOPE PRODUCTION AND DISTRIBUTION PROGRAM"": ""CANADA'S TRIUMF"" ""NORDION AND ISOTOPES""""UNIVERSITIES AND NATIONAL LABORATORIES IN RESEARCH""; ""DOE LABORATORY AND UNIVERSITY PARTNERSHIPS WITH COMMERCIAL VENTURES""; ""Radiation Therapy at Brookhaven""; ""Continuous Electron Beam Accelerator Facility (CEBAF)"": ""Technology Transfer and Cooperative Agreements"": ""POSSIBLE MODEL FOR NBTF""; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""REFERENCES""; ""6 A National Isotope Policy: Proposal for a New Way to Manage the Nation's Isotope Resources"; ""CONCLUSIONS""; ""RECOMMENDATIONS""; ""APPENDIXES""; ""APPENDIX A Waste Management"" ""NATURE AND SOURCES OF LOW-LEVEL RADIOACTIVE WASTE (LLRW)"""" RISK FROM LLRW""; ""DISPOSAL SITES""; ""IMPLICATIONS FOR ISOTOPE PRODUCTION AND USE""; ""REFERENCES""; ""APPENDIX B Legal Considerations""; ""THE ATOMIC ENERGY ACT OF 1954""; ""PUBLIC LAW 101-101""; ""THE TECHNOLOGY TRANSFER ACT OF 1986""; ""ANTI-TRUST CONSIDERATIONS""; ""REFERENCES""; ""APPENDIX C Acronyms and Abbreviations""; ""APPENDIX D Table of Elements""; ""APPENDIX E Glossary""