1. Record Nr. UNINA9910457208403321

Autore	Aronstein David C
Titolo	The lightweight fighter program [[electronic resource]] : a successful approach to fighter technology transition / / David C. Aronstein, Albert C. Piccirillo
Pubbl/distr/stampa	Reston, Va., : AIAA, c1996
ISBN	1-60086-804-5 1-60086-803-7
Descrizione fisica	1 online resource (74 p.)
Altri autori (Persone)	PiccirilloAlbert C
Disciplina	358.4/383
Soggetti	Fighter planes - United States Airplanes, Military - United States - Prototypes Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"AIAA case study"--Cover.
Nota di bibliografia	Includes bibliographical references (p. 57-59).
Nota di contenuto	""COVER""; ""TITLE""; ""ACKNOWLEDGMENT""; ""ABOUT THE AUTHORS""; ""COPYRIGHT""; ""CONTENTS""; ""PREFACE""; ""INTRODUCTION""; ""Environment at the Initiation of the Lightweight Fighter Program""; ""New Prototyping Philosophy: Experimental Prototyping""; ""LIGHTWEIGHT FIGHTER PROGRAM""; ""Purpose""; ""Philosophy and Program Management""; ""Source Selection""; ""Flight Test Approach and Organization""; ""YF-16""; ""Development History""; ""Technology""; ""Flight Test""; ""YF-17""; ""Development History""; ""Technology""; ""Flight Test""; ""OUTCOME OF THE LIGHTWEIGHT FIGHTER PROGRAM"" ""Technology Achievements""""Lessons Learned""; ""APPENDIX: TRANSITION TO PRODUCTION PROGRAMS""; ""SUMMARY""; ""REFERENCES""; ""ADDITIONAL READING""

2. Record Nr. UNINA9910143148803321

Titolo	Applications of synchrotron light to scattering and diffraction in materials and life sciences / / T.A. Ezquerra ... [et al.] (eds.)
Pubbl/distr/stampa	Berlin, : Springer, c2009
ISBN	9786613562753 9781280384837 1280384832 9783540959687 3540959688
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XVI, 318 p. 177 illus., 20 illus. in color.)
Collana	Lecture notes in physics, , 0075-8450 ; ; 776
Classificazione	UD 8220
Altri autori (Persone)	EzquerraT. A (Tiberio A.)
Disciplina	530.8
Soggetti	Synchrotrons Proton synchrotrons
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Bases of Synchrotron Radiation, Light Sources, and Features of X-Ray Scattering Beamlines -- Scattering of Soft Condensed Matter: From Fundaments to Application -- A Basic Introduction to Grazing Incidence Small-Angle X-Ray Scattering -- Fundaments of Soft Condensed Matter Scattering and Diffraction with Microfocus Techniques -- The Use of Scattering and Spectroscopic Synchrotron Radiation Methods in Materials Science -- Synchrotron Small-Angle X-Ray Scattering Studies of Colloidal Suspensions -- Applications of Synchrotron X-Ray Diffraction to the Study of the Phase Behavior in Liquid Crystalline Polymers -- Structural Analysis of Biological and Technical Nanocomposites by X-Ray Scattering -- Application of Non-crystalline Diffraction with Microfocus to Carbon Fibres -- Simultaneous Calorimetric, Dielectric, and SAXS/WAXS Experiments During Polymer Crystallization -- Discovering New Features of Protein Complexes Structures by Small-Angle X-Ray Scattering -- Protein Shape and Assembly Studied with X-Ray Solution Scattering: Fundaments and Practice -- Diagnosis Applications of Non-Crystalline Diffraction of Collagen Fibres: Breast Cancer and Skin Diseases -- X-Ray Diffraction

from Live Muscle Fibres.

Sommario/riassunto

The present set of lecture notes originates from the deeply felt need in the community to bridge the gap between beamline manuals and advanced graduate textbooks. The volume is a collection of tutorials, surveys and reviews. They cover most cases of relevance and interest where the combination of synchrotron light with various scattering and diffraction techniques is a very helpful approach to obtaining essential information about the structure of large molecular assemblies in low-ordered environments. Soft condensed matter and biomaterials, as well as complex fluids, are typical of the materials considered here. Contributions to this volume have been selected on the basis of their close relevance to advanced synchrotron radiation sources and state-of-the art beamline work.