1. Record Nr. UNISALENTO991001442999707536

Autore	Brögger, Jan
Titolo	Montevarese : a study of peasant society and culture in Southern Italy / by Jan Brögger
Pubbl/distr/stampa	Bergen : Universitetsforlaget, 1971
Descrizione fisica	159 p. : ill. ; 24 cm
Collana	Scandinavian university books
Disciplina	301.4443
Soggetti	Italia meridionale Condizioni economiche e sociali
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910789447403321

Titolo	Mechanics of composite materials : proceedingsof the fifth symposium on Naval structural mechanics, held at the Marriot Motor Hotel, Philadelphia, Pennsylvania, May 8-10, 1967 / / edited by F. W. Wendt, H. Liebowitz, N. Perrone
Pubbl/distr/stampa	Oxford, England : , : Pergamon Press Ltd, , 1970 ©1970
ISBN	1-4831-4779-7
Descrizione fisica	1 online resource (903 p.)
Collana	Office of Naval Research. Structural Mechanics Series
Disciplina	620/.11
Soggetti	Composite materials Fibrous composites Reinforced plastics
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 indexes.

Nota di contenuto

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III. EFFECTIVE CONSTANTSIV. EVALUATION OF THE BOUNDS ON k USING A PARTICULAR CELL MODEL; REFERENCES; CHAPTER 13. STRESS-STRAIN RELATIONS FOR COMPOSITE MATERIALS IN SHELLS OF ARBITRARY GEOMETRY; I. INTRODUCTION; II. GENERAL REMARKS; III. STIFFNESS TENSOR FOR FIBER-REINFORCED SHELLS; IV. CONCLUDING REMARKS; REFERENCES; CHAPTER 13. STRAINS AND STRESSES IN MATRICES WITH INSERTS; ABSTRACT; I. INTRODUCTION; I I . SPECIFICATION OF STRESS AND STRAIN CONDITIONS AT INTERFACE OF MATRICES AND INSERTS; III; . METHODS TO BE USED; IV. THREE-DIMENSIONAL ANALYSIS; V. TWO-DIMENSIONAL ANALYSIS (BONDED INSERTS)
VI. TWO-DIMENSIONAL ANALYSIS (NO-PINCHING)

Sommario/riassunto

Mechanics of Composite Materials contains the proceedings of the Fifth Symposium on Naval Structural Mechanics held in Philadelphia, Pennsylvania, on May 8-10, 1967. The papers explore the mechanics of composite materials for naval applications. The structural requirements of a system and the fundamental mechanical properties of composite materials, as well as the behavior of such materials under various

environmental conditions, are discussed. This book is comprised of 40 chapters and begins with an analysis of missile and aircraft systems constraints and operational requirements, along with