This volume contains the up-to-date contributions of those with working experience in the automotive, marine, aerospace and construction field. Starting with modern technologies concerned with assessing the change in material microstructure in terms of the processing parameters, methodologies are offered to account for tradeoffs between the fundamental variables such as temperature and pressure that control the product quality. The book contains new ideas and data, not available in the open literature.

Government Reports Announcements & Index

Uncommon Grounds

U.S. Government Research & Development Reports This book discusses the learning and teaching of geometry, with a special focus on kindergarten and primary education. It examines important new trends and developments in research and practice, and emphasizes theoretical, empirical and developmental issues. Further, it discusses various topics, including curriculum studies and implementation, spatial abilities and geometric reasoning, as well as the psychological roots of geometrical thinking and teacher preparation in geometry education. It considers these issues from historical, epistemological, cognitive semiotic and educational points of view in the context of students’ difficulties and the design of teaching and curricula.

Form & Formlessness Adorned on the outside with a magnificent marble entrance, the Libreria Piccolomini possesses on the

Library of Congress Catalogs The two volume set LINC 11486 and 11487 constitutes the proceedings of the International Work-Conference on the Interplay Between Natural and Artificial Computation, IWANAC 2019, held in Almería, Spain, in June 2019. The total of 103 contributions was carefully reviewed and selected from 190 submissions during two rounds of reviewing and improvement. The papers are organized in two volumes, one on understanding the brain function and emotions, addressing topics such as new tools for analyzing neural data, or detection emotional states, or interfacing with physical systems. The second volume deals with bioinspired systems and biomedical applications to machine learning and contains papers related bioinspired programming strategies and all the contributions oriented to the computational solutions to engineering problems in different applications domains, as biomedical systems, or big data solutions.

Bibliographic Guide to Business and Economics

Prepare and Serve Espresso Coffee Emerging forms of alternative economic frameworks are changing the structure of society, redefining the relationship between centre and periphery, and the social dynamics in the urban fabric. In this context, the arts can play a crucial role in formulating a concept of complex and plural citizenship: This economic, social and cultural paradigm has the potential to overcome the conventional isolation of the arts and culture in ivory towers, and thereby to gradually make the urban fabric more fertile. This volume faces such sensitive issues by collating contributions from various disciplines: Economists, sociologists, urbanists, architects and creative artists offer a broad and deep assessment of urban dynamics and their visions for the years to come.

Understanding the Brain Function and Emotions

Art and Economics in the City Geomatics is a neologism, the use of which is becoming increasingly widespread, even if it is not still universally accepted. It includes several disciplines and techniques for the study of the Earth’s surface and its environments, and computer science plays a decisive role. A more meaningful and appropriate expression is Geo-spatial Information. Geo-spatial Information embeds topography in its more modern forms (measurements with electronic instrumentation, sophisticated techniques of data analysis and network compensation, global satellite positioning techniques, laser scanning, etc.), analytical and digital photogrammetry, satellite and airborne remote sensing, numerical cartography, geographical information systems, decision support systems, WebGIS, etc. These specialized elds are intimately interrelated in terms of both the basic science and the results pursued: rigid separation does not allow us to discover several common aspects and the fundamental importance assumed in a search for solutions in the complex survey context. The objective pursued by Mario A. Gomarasca, one that is only apparently modest, is to publish an integrated text on the surveying theme, containing simple and comprehensible concepts relevant to experts in Geo-spatial Information and/or specifically in one of the disciplines that compose it. At the same time, the book is rigorous and synthetic, describing with precision the main instruments and methods connected to the multiple techniques available today.

Astrodynamics From the deserts of Egypt to the emergence of the great monastic orders, the story of late antique and medieval monasticism in the West used to be straightforward. But today we see the story as far ‘messier’ - less linear, less unified, and more historicized. In the first part of this book, the reader is introduced to the astonishing variety of forms and experiences of the monastic life, their continuous transformation, and their embedding in physical, socio-economic, and even personal settings. The second part surveys and discusses the extensive international scholarship on which the first part is built. The third part, a research tool, rounds off the volume with a carefully representative bibliography of literature and primary sources.

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