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This is the first book in English reviewing and updating the geology of the whole Apennines, one of the recent most uplifted mountains in the world. The Apennines are the place from which Steno (1669) first stated the principles of geology. The Apennines also represent amongst others, the finding/testing sites of processes and products like volcanic eruptions, earthquakes, olistostromes and mélanges (argille scagliose), salinity crisis, geothermal fluids, thrust-top basins, and turbidites (first represented in a famous Leonardo's painting). As such, the Apennines are a testing and learning ground readily accessible and rich of any type of field data. A growing literature is available most of which is not published in widely available journals. The objective of the book is to provide a synthesis of current data and ideas on the Apennines, for the most part simply written and suitable for an international audience. However, sufficient details and in-depth analyses of the various complex settings have been presented to make this material useful to professional scholars and to students of senior university courses. "The Umbria-Marche Apennines are entirely made of marine sedimentary rocks, representing a continuous record of the geotectonic evolution of an epeiric sea from the Early Triassic to the Pleistocene. The book includes reviews and original research works accomplished with the support of the Geological Observatory of Coldigioco"-- This book is Volume 2 of the EUROCK 2018 proceedings. Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018, the 2018 International Symposium of the International Society for Rock Mechanics (ISRM 2018, Saint Petersburg, Russia, 22-26 May 2018). Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology, the main topics of the book include: - Physical and mechanical properties of fractured rock (laboratory testing and rock properties, field measurements and site investigations) - Geophysics in rock mechanics - Rock mass strength and failure - Nonlinear problems in rock mechanics - Effect of joint water on the behavior of rock foundation - Numerical modeling and back analysis - Mineral resources development: methods and rock mechanics problems - Rock mechanics and underground construction in mining, hydropower industry and civil engineering - Rock mechanics in petroleum engineering - Geodynamics and monitoring of rock mass behavior - Risks and hazards - Geomechanics of tecthenogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2018, organized by the Saint Petersburg Mining University, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK. List of members in each volume. Fifty years ago, Tuzo Wilson published his paper asking "Did the Atlantic close and then re-open?". This led to the 'Wilson Cycle' concept in which the repeated opening and closing of ocean basins along old orogenic belts is a key process in the assembly and breakup of supercontinents. The Wilson Cycle underlies much of what we know about the geological evolution of the Earth and its lithosphere, and will no doubt continue to be developed as we gain more understanding of the physical processes that control mantle convection, plate tectonics, and as more data become available from currently less accessible regions. This volume includes both thematic and review papers covering various aspects of the Wilson Cycle concept. Thematic sections include: (1) the Classic Wilson v. Supercontinent Cycles, (2) Mantle Dynamics in the Wilson Cycle, (3) Tectonic Inheritance in the Lithosphere, (4) Revisiting Tuzo's question on the Atlantic, (5) Opening and Closing of Oceans, and (6) Cratonic Basins and their place in the Wilson Cycle. The Alps are an arched mountain chain stretching 1500 km between Vienna and Graz in Austria and Genova in Italy. They resulted from the collision of the African and Laurasian plates during Mesozoic and Tertiary times. The high standard of knowledge attained over the last 30 years by the working groups on "Alpine Metamorphism" is well known and helped considerably to recognize pre-Mesozoic elements in the Alps. In Part I of this book the subdivision of the major Alpine units and pre-Mesozoic pal inespastic reconstructions are covered before discussion of the pre-Mesozoic geology in Parts II, III and IV It is understood that the Mesozoic and later events overprinted pre-existing structures veiling the earlier history and the nature of protoliths. Although the Alpine overprint does not facilitate the recognition of older structures, pre-Mesozoic basement units were recognized during the first beginnings of geological observations in the Alps, about 200 years ago. Fifty percent of the Alpine domain is underlain by basement units that have been unconformably covered since Permian and Mesozoic times. This basement appears today in a complex pattern among the Alpine structures. The history of their discovery and explanation, parallel with a growing sophistication of research methods, are the subject of the introductory chapter of Part II. This book offers as comprehensive an overview as possible of the lithostratigraphy of the Italian region of Sicily, taking into account the multiplicity of formational and terminological variability developed over more than a century of studies and publications. It presents stratigraphic terminology, the geological lexicon and the main stratigraphic subdivisions that are not familiar to Sicilian geologists. The new stratigraphic methods and the use of formations as mapping units have prompted the acquisition of new lithostratigraphic data, and a review of the previous units and their comparison with the new collected data, enabling the definition of a number of new lithostratigraphic units. The book summarizes the results in 77 worksheets containing the most important information regarding the lithological, sedimentological and microfacies characteristics, the measured thicknesses, areal extent and the regional aspects, the paleoenvironmental, paleogeographic and paleo-tectonics setting, compiled according to standard procedures and nomenclature rules provided by the International Commission on Stratigraphy (ICS). The book deals with the most striking landscapes and landforms of Italy. Attention is given to landform diversity and landscape evolution through time which has been controlled by very diverse geological conditions and dramatic climate changes that have characterized the Italian peninsula and islands since the end of the last glaciation. In addition, various examples of human impact on the landscape are presented. Landscapes and Landforms of Italy contains more than thirty case studies of a multitude of Italian geographical landmarks. The topics and sites described in this book range from the Alpine glaciers to the Etna and Vesuvius volcanoes, taking into account the most representative fluvial, coastal, gravity-induced, karst and structural landscapes of the country. Chapters on the geomorphological landmarks of the cities of Rome and Venice are also included. The book provides the readers with the opportunity to explore the variety of Italian landscapes and landforms through informative texts illustrated with several color maps and photos. This book will be relevant to scientists, scholars and any readers interested in geology, physical geography, geomorphology, landscape tourism, geoheritage and environmental protection. One of the best ways to improve collective knowledge and practice is through sharing experiences and knowledge between different stakeholders. The idea for the current monograph followed such an approach. The monograph presents six best practice examples from six of the project's Pilot Action Regions (PAR). It is one of the deliverables of the GreenRisk4ALPs project funded by the EU Interreg Alpine Space program. The project aims to develop decision support tools supporting risk-based protective forest management in the Alpine Space. All main outputs of the project have been tested, improved and operationally applied in the PARs. The monograph is primarily intended for forestry experts, decision-makers at all levels of decision-making and other professionals. This book contains six chapters dealing with the investigation of seismic and sequence stratigraphy and integrated stratigraphy, including the stratigraphic unconformities, in different geological settings and using several techniques and methods, including the seismostratigraphic and the sequence stratigraphic analysis, the field geological survey, the well log stratigraphic interpretation, and the lithologic and paleobotanical data. Book chapters are separated into two main sections: (i) seismic and sequence stratigraphy and (ii) integrated stratigraphy. There are three chapters in the first section, including the application of sequence and seismic stratigraphy to the fine-grained shales, to the fluvial facies and depositional environments, and to the Late Miocene geological structures offshore of Taiwan. In the second section, there are three chapters dealing with the integrated stratigraphic investigation of Jurassic deposits of the southern Siberian platform, with the stratigraphic unconformities, reviewing the related geological concepts and studying examples from Middle-Upper Paleozoic successions; and, finally, with the integrated stratigraphy of the Cenozoic deposits of the Andean foreland basin (northwestern Argentina). This book describes Sicily's unique and varied karst features, discussing the notable geographical areas, their lithology and genesis and, in a number of cases, their value as geosites to be preserved for scientific or tourism purposes. The rich variety of Meso-Cenozoic outcropping rocks in Sicily make the island highly significant in terms of the geological history of the Mediterranean area. The soluble rocks (limestones and gypsum), widely present on the island, play an important role in shaping and continuously altering the landscape, both in the reliefs with spectacular fluviokarst cayons and suggestive gorges, and below ground where there is a wide range of speleogenically and speleologically important caves. Permian and Triassic are the interval known for the integration and separation of Pangea, the closure of the Palaeotethys and the opening of Mesotethys. They were associated with a series of worldwide events including the Late Palaeozoic glaciation and succeeding extensive evaporitic and reef formations, the end-Palaeozoic regression, strong orogenies and widespread volcanism and magmatism, and finally, the Permo-Triassic biotic macro-extinction. These events resulted in the formation of enormous reserves of coal, petroleum, evaporites, phosphorites and metal resources. The Permian and Triassic thus constitutes a time interval particularly important both for understanding the Earth's history and for exploration of mineral resources. The book aims to reconstruct the Permian-Triassic history of Pangea, Palaeo-Tethys and Palaeo-Pacific through stratigraphic, palaeogeographic and other interdisciplinary approaches. It consists of two parts. Part 1 deals with regional stratigraphy of Tethyan and western Circum-Pacific countries which is the basis for interregional correlation, and palaeogeography. Part 2 deals with the biotic evolution at the Permian-Triassic transition, focusing on the major invertebrate groups: foraminifers, radiolarians, brachiopods, ammonoids and conodonts. This book provides an updated list of the vascular flora of the National Park of Abruzzo, Lazio and Molise, incorporating the latest nomenclatural and floristic findings. The list of plants was extrapolated from a geographic database including all data from floristic or vegetational references and herbarium specimens concerning the Park area. This data storage tool was obtained from the database of Abruzzo vascular flora (Conti et al. 2010) and adapted to the study area by adding those areas of the Park falling in the regions of Lazio and Molise and their accompanying floristic and vegetational data. Analysis of the data has allowed gaps in the floristic knowledge of the Park, such as comparatively or completely unexplored areas, to be identified, together with those species records that still require confirmation and/or further study. On the basis of these deductions, fieldwork aimed at the collection of new floristic data was carried out. Verification of the correct identification of herbarium specimens collected in the past, as well as a systematic study of critical genera, were also important priorities. IN QUESTO NUMERO: IL MESOLITICO DI LEVANE-BANDELLA (AREZZO). L'INSEDIAMENTO SAUVETERRIANO DEL SETTORE OVEST Maurizio Magi, Fabio Martini, Lapo Baglioni, Lorenzo Nannini UN NUOVO VILLAGGIO DELLA CULTURA DI CATIGNANO: IL SITO DI COLLE CERA PRESSO LORETO APRUTINO (PESCARA) Marta Colombo, Marco Serradimigni, Carlo Tozzi IL SITO NEOLITICO DI SCANDICCI - VIA DELEDDA (FIRENZE) Nicoletta Volante, Maddalena Chelini, Zelia Di Giuseppe, Massimiliano Ghinassi, Pasquino Pallecchi, Silvia Ricciardi I PRIMI SCAMBI SU LUNGA DISTANZA NELL'ORIENTE ANTICO. IL CASO DELL'OSSIDIANA DURANTE IL NEOLITICO TARDO Luca Peyrone! A FIRST STEP TOWARDS THE SPATIAL ANALYSIS OF THE HAMANGIA (NEOLITHIC) NECROPOLIS FROM CERNAVODA, ROMANIA Alexandru S. Morintz, Raluca Kog?Iniceanu LE AREE INTERNE DELLA CAMPANIA CENTRO-SETTENTRIONALE DURANTE LE FASI EVOLUTE DELL'ENEOLITICO: OSSERVAZIONI SULLE DINAMICHE CULTURALI Pierfrancesco Talamo I LIVELLI APPENNINICI DELL'INSEDIAMENTO PLURISTRATIFICATO DEL FUSARO (AVELLA-AVELLINO) Claude Albore Livadie, Elisa Di Giovanni, Giovanni Carboni TRAFFICI MICENEI NEL BASSO ADRIATICO E NELL'ALTO IONICO: MODALITÀ DI SCAMBIO A CONFRONTO Elisabetta Onnis PALEOBIOLOGICAL EXAMINATION OF THE BRONZE AGE HUMAN SKELETAL REMAINS FROM LUOGOVIVO (TARANTO, SOUTHERN ITALY) Mary Anne Tafuri, Maria Antonietta Gorgoglione, Serena Capurso, Loretana Salvadei, Giorgio Manzi ETNOARCHEOLOGIA: PENSIERI E PROSPETTIVE DAL SAHARA CENTRALE Stefano Biagetti RECENSIONI a cura di Cristina Cretu, Sara T. 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monocroma e trasparente da Rocca S. Felice (Avellino) Nicola Busino, Ceramiche invetriate dal castello di Ariano Irpino Carlo Ebanista, Ceramica invetriata dalle chiese di S. Maria Assunta e S. Pietro a Frigento (AV) Carmela Calabria, Ceramiche invetriate dal castello di Amendolea a Condofuri (RC) Giuseppe Alessandro Bruno, Claudio Capelli, Roberto Cabella, Dati archeologici e archeometrici su ceramiche invetriate dall'area dello Stretto di Messina Salvina Fiorilla, Primi dati sulle ceramiche invetriate su ingobbio siciliane Caterina Laganara Fabiano, Annarosa Mangone, Angela Traini, Rocco Laviano, Ida Catalano, Nuovi dati dalla ceramica con rivestimento vetroso di Siponto (Puglia): tra archeologia ed archeometria Gabriella Manna, Un'importante raccolta di frammenti dell'Iran medievale conservati nel Museo Internazionale delle Ceramiche in Faenza (notizia preliminare) Comunicazioni a tema libero Silvana Gavagnin, Stefano Roascio, Aggiornamento della mappa distributiva dei bacini murati in Liguria alla luce delle nuove scoperte archeologiche Josepha Costa Restagno, Una fornace ceramica nell'entroterra di Albenga Anna Moore Valeri, Domenico Lorenzo Levantino maiolicaro ad Empoli (1765-1808): il materiale archeologico (con Appendice di Alessandro Alinari, Tracce di un servito prodotto nella manifattura empolese di Domenico Lorenzo Levantino Marco Milanese, I bacini del XV secolo nella chiesa di San Pancrazio a Suni. Un nuovo termine cronologico per l'utilizzo dei bacini ceramici nella Sardegna medievale Riassunti dei contributi non pervenuti: Enrico Cirelli, Ceramica invetriata di Classe (V-VII sec.). Nuove analisi dal contesto della 'fornace' del Podere Chiavichetta; Vincenzo Gobbo, La ceramica invetriata tra tardo antico e medioevo da contesti archeologici del Veneto orientale; Antonio Alberti-Monica Baldassarri, La ceramica invetriata a Pisa: nuove acquisizioni dai recenti scavi nella città e nel territorio; Angelica Degasperi-Elisa Pruno, Vasellame invetriato dagli scavi della Villa di Cafaggiolo: profilo di una cucina medicea; Simona Pannuzi, Produzioni di ceramica invetriata di età moderna in area romana e laziale alla luce dei più recenti rinvenimenti; Rosa Fiorillo, La morfologia della ceramica invetriata da mensa nella seconda metà del XIII secolo e il primo decennio del XIV; Francesco A. Cuteri-Antonella Maesano-Mariangela Preta-Pasquale Salamida, Attestazioni ceramiche invetriate dipinte bassomedievali nella Calabria centro-meridionale; Filippa Pinella Marchese, La ceramica invetriata e le maioliche medioevali della Montagna di Ganzaria nel territorio calatino (CT); Carlo Dell'Aquila-Dario Ciminale, Il 'tipo Bari': una produzione invetriata dipinta pugliese tra tradizione medievale e Rinascimento. Nuove acquisizioni e aggiornamenti; Antonio Sigillo-Fausto Berti, Prime indagini sulla produzione ceramica di Montepulciano (Siena); Valerio Diotto, Il progetto DICE, ovvero un'Infrastruttura Distribuita per l'Eredità Culturale. From humble beginnings, Rome became perhaps the greatest intercontinental power in the world. Why did this historic city become so much more influential than its neighbor, nearby Latium, which was peopled by more or less the same stock? Over the years, historians, political analysts, and sociologists have discussed this question ad infinitum, without considering one underlying factor that led to the rise of Rome--the geology now hidden by the modern city. This book demonstrates the important link between the history of Rome and its geologic setting in a lively, fact-filled narrative sure to interest geology and history buffs and travelers alike. The authors point out that Rome possessed many geographic advantages over surrounding areas: proximity to a major river with access to the sea, plateaus for protection, nearby sources of building materials, and most significantly, clean drinking water from springs in the Apennines. Even the resiliency of Rome's architecture and the stability of life on its hills are underscored by the city's geologic framework. If carried along with a good city map, this book will expand the understanding of travelers who explore the eternal city's streets. Chapters are arranged geographically, based on each of the seven hills, the Tiber floodplain, ancient creeks that dissected the plateau, and ridges that rise above the right bank. As an added bonus, the last chapter consists of three field trips around the center of Rome, which can be enjoyed on foot or by using public transportation. Collana Antico/Futuro diretta da Claudio Varagnoli Il patrimonio architettonico dell'Abruzzo meridionale, coincidente con l'attuale provincia di Chieti, in cui la presenza di centri urbani dominanti, a parte il capoluogo, si fa meno incidente e la diffusione del costruito storico sul territorio si rivela capillare, è spesso liquidato nei programmi di restauro e conservazione con una generica sentenza di inadeguatezza, ma in realtà sostanza e testimonianza dell'armatura urbana che innerva l'intero territorio regionale e che conferisce senso al paesaggio e alla stessa storia delle comunità locali. Molti di questi centri sono oggi soggetti all'abbandono, al sottoutilizzo, alle alterazioni abusive finalizzate quasi esclusivamente al consumo di suolo o all'affermazione di uno status sociale appariscente quanto effimero. È una condizione condivisa con tutte le aree montane interne, e che trova origine nei profondi disequilibri che hanno segnato la crescita economica dell'intero Paese. Il risultato finale è che tale patrimonio costruito, viene considerato come un impedimento ad una malintesa idea di sviluppo. Lo studio di Clara Verazzo ha il grande merito di conferire dignità scientifica a questa realtà, ricostruendo con pazienza e acribia la sapienza costruttiva che è diffusa in questi esempi. Rispetto agli studi dedicati ad altre aree centro-meridionali, Clara Verazzo punta ad una visione di sintesi, affidando alle illustrazioni il compito di approfondire dettagli tecnici e costruttivi, con una maggior presa sulla situazione attuale. Lo studio infatti si conclude con una rassegna dei principali restauri eseguiti nell'area, con considerazioni su possibili scenari di conservazione dei centri storici. Un altro tassello si aggiunge quindi alla conoscenza di un territorio, in cui si spera che questo lavoro possa essere una guida per interventi consapevoli e un fondamento di prospettive di sviluppo non incentrate sulla mera speculazione e sul consumo di suolo CLARA VERAZZO è architetto, specialista in "Restauro dei monumenti" (2003), dottore di Ricerca in "Conservazione dei Beni Architettonici" (XIX ciclo, 2007), presso il Dipartimento di Architettura dell'Università di Chieti-Pescara, dove svolge attività di ricerca, e funzionario della Soprintendenza Belle Arti e Paesaggio per le province di Brescia, Cremona e Mantova (2012). Ha pubblicato studi e articoli sulla conservazione del patrimonio architettonico e del paesaggio culturale. Ten papers address both empirical and analytical aspects of clay and shale slope instability. Among the topics discussed in detail are: limit equilibrium stability analysis, shear strength of clay and clayey colluvium, use of triaxial test data to evaluate viscoplastic slope movements, numerical modeling of pore pressure distribution in heterogeneous soils, rational analysis of rainfall and landslide movement patterns, the effects of hydrothermal alteration on slope stability, mudrock durability and stability considerations, and regional clay and shale slope stability problems in Italy. I Sistemi Informativi Geografici (GIS) non sono più una prerogativa di una ristretta cerchia di esperti ma rappresentano ormai strumenti di lavoro quotidiano in molti ambiti applicativi. Questo libro è stato concepito come un manuale operativo GIS a uso di professionisti, ricercatori, studenti universitari e di tutti coloro che hanno necessità di operare con dati geografici nel settore geologico e ambientale in genere La seconda edizione è stata aggiornata sulla base delle nuove funzionalità e modalità operative dell'ultima versione di QGIS. Sono state inoltre introdotte tematiche fondamentali per chi lavora con dati ambientali, come l'utilizzo dei GIS per l'analisi di immagini multispettrali e il calcolo di indici vegetazionali, il monitoraggio dell'erosione costiera, la definizione di aree di rischio e pericolosità idraulica, l'analisi geostatistica con R. Per l'impostazione generale e per il linguaggio non specialistico utilizzato, la consultazione risulta utile ed efficace anche ai lettori senza alcuna conoscenza nell'ambito delle Scienze della Terra. Tutti gli argomenti sono affrontati con un taglio fortemente pratico. Il lettore può ripetere gli esercizi proposti utilizzando il dataset geografico scaricabile dal sito della casa editrice e acquisire dimestichezza con le funzionalità del software GIS open source QGIS.

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