

Experimenta Compact Per Le Scuole Superiori Con Dvd

Combines a history of the development of photography with guidelines for mastering the photographic print processes which the great nineteenthand twentieth-century pioneers of photography themselves employed

The Handbook of International Futurism is the first reference work ever to presents in a comparative fashion all media and countries in which the movement, initiated by F. T. Marinetti in 1909, exercised a particularly noteworthy influence. The handbook offers a synthesis of the state of scholarship regarding the international radiation of Futurism and its influence in some fifteen artistic disciplines and thirty-eight countries. While acknowledging the great achievements of the movement in the visual and literary arts of Italy and Russia, it treats Futurism as an international, multidisciplinary phenomenon that left a lasting mark on the manifold artistic manifestations of the early twentieth-century avant-garde. Hundreds of artists, who in some phase in their career absorbed Futurist ideas and stylistic devices, are presented in the context of their national traditions, their internal connections and the media in which they were predominantly active. The handbook acts as a kind of multi-disciplinary, geographical encyclopaedia of Futurism and gives scholars with varying levels of experience a detailed overview of all countries and disciplines in which the movement had a major impact. This volume collects the best scientific contribution presented in the 3rd World Conference on Terraced Landscapes held in Italy from 6th to 15th October 2016, offering a deep and multifaceted insight into the remarkable heritage of terraced landscapes in Italy, in Europe and in the World (America, Asia, Australia). It consists of 2 parts: a geographical overview on some of the most important terraced systems in the world (1st part), and a multidisciplinary approach that aims to promote a multifunctional vision of terraces, underlining how these landscapes meet different needs: cultural and historical values, environmental and hydrogeological functions, quality and variety of food, community empowerment and sustainable development (2nd part). The volume offers a great overview on strengths, weaknesses, functions and strategies for terraced landscapes all over the world, summarizing in a final manifest the guidelines to provide a future for these landscapes as natural and cultural heritage.

Today, nearly a century after the National Fascist Party came to power in Italy, questions about the built legacy of the regime provoke polemics among architects and scholars. Mussolini's government constructed thousands of new buildings across the Italian Peninsula and islands and in colonial territories. From hospitals, post offices and stadia to housing, summer camps, Fascist Party Headquarters, ceremonial spaces, roads, railways and bridges, the physical traces of the regime have a presence in nearly every Italian town. The Routledge Companion to Italian Fascist Architecture investigates what has become of the architectural and urban projects of Italian fascism, how sites have been transformed or adapted and what constitutes the meaning of these buildings and cities today. The essays include a rich array of new arguments by both senior and early career scholars from Italy and beyond. They examine the reception of fascist architecture through studies of destruction and adaptation, debates over reuse, artistic interventions and even routine daily practices, which may slowly alter collective understandings of such places. Paolo Portoghesi sheds light on the subject from his internal perspective, while Harald Bodenschatz situates Italy among period totalitarian authorities and the symbols across Europe. Section editors frame, synthesize and moderate essays that explore fascism's afterlife: how the physical legacy of the regime has been altered and preserved and what it means now. This critical history of interpretations of fascist-era architecture and urban projects broadens our understanding of the relationships among politics, identity, memory and place. This companion will be of interest to students and scholars in a range of fields, including Italian history, architectural history, cultural studies, visual sociology, political science and art history.

Alchemy and Art Technology from Antiquity to the 18th Century

Animality in Contemporary Italian Philosophy

Cambridge IGCSE Physics Coursebook with CD-ROM

16th EuroVR International Conference, EuroVR 2019, Tallinn, Estonia, October 23/25, 2019, Proceedings

Tracing Orpheus

notes for a general history of cinema

The universal practice of selecting and excerpting, summarizing and canonizing, arranging and organizing texts and visual signs, either in carefully dedicated types of manuscripts or not, is common to all manuscript cultures. Determined by intellectual or practical needs, this process is never neutral in itself. The resulting proximity and juxtaposition of previously distant contents, challenge previous knowledge and trigger further developments. With a vast selection of highly representative case studies – from India, Islamic Asia and Spain to Ethiopian cultures, from Ancient Christian to Coptic, and Medieval European domains – this volume deals with manuscripts planned or growing and resulting in time to comprise ‘more than one’. Whatever their contents – the natural world and related recipes, astronomical tables or personal notes, documentary, religious and even highly revered holy texts – codicological and textual features of these manuscripts reveal how similar needs received different answers in varying contexts and times.

What consequences does the design of the virtual yield for architecture and to what extent can the nature of architecture be used productively to turn game–worlds into sustainable places – over here, in «reality»? This pioneering collection gives an overview of contemporary developments in designing video games and of the relationships such practices have established with the design of architecture. Due to their often simulatory nature, games reveal constructions of reality while positively impacting spatial ability and allowing for alternative avenues to complex topics and processes of negotiation. Granting insight into the merging of the design of real and virtual environments, this volume offers an invaluable platform for further debate.

The Structures of Practical Knowledge investigates the nature of practical knowledge – why, how, when and by whom it is codified, and once codified, how this knowledge is structured. The inquiry unfolds in a series of fifteen case studies, which range in focus from early modern Italy to eighteenth century China. At the heart of each study is a shared definition of practical knowledge, that is, knowledge needed to obtain a certain outcome, whether that be an artistic or mechanical artifact, a healing practice, or a mathematical result.

While the content of practical knowledge is widely variable, this study shows that all practical knowledge is formally equivalent in following a defined workflow, as reflected in a construction procedure, a recipe, or an algorithm. As explored in the volume’s fifteen contributions, there are three levels at which structures of practical knowledge may be understood and examined. At the most immediate level, there are the individual workflows that encompass practical knowledge itself. Probing further, it is possible to examine the structure of practical knowledge as it is externalized and codified in texts, drawings, and artifacts such as models. Finally, practical knowledge is also related to social structures, which fundamentally determine its dissemination and evolution into new knowledge structures. The social structures of professionals and institutions represent the critical means by which practical knowledge takes form. These actors are the agents of codification, and by means of selection, appropriation, and knowledge development, they determine the formation of new structures of practical knowledge. On a more abstract level, the creation of new knowledge structures is understood as constituting the basis for the further development of scientific knowledge. Rich in subject matter and incisive in the theory it lays out, this volume represents an important contribution to the history of science and epistemology. Individually, the fifteen case studies – encompassing the history of architecture, mining, brewing, glass production, printing, ballistics, mechanics, cartography, cosmology and astronomy – are replete with original research, and offer new insights into the history of science. Taken together, the contributions remodel historical epistemology as a whole, elucidating the underlying knowledge structures that transcend disciplinary boundaries, and that unite practitioners across time and space.

Convinced that all aspects of modern culture have been affected by avant-garde art, Poggolini explores the relationship between the avant-garde and civilization. Historical parallels and modern examples from all the arts are used to show how the avant-garde is both symptom and cause of many major extra-aesthetic trends of our time, and that the contemporary avant-garde is the sole and authentic one.

Methodologies and Results in Grapevine Research

The Spread of a Revolution in Science

World Terraced Landscapes: History, Environment, Quality of Life

A Study of Atomism and Chemistry in the Seventeenth Century

Harnessing Green IT

The Bloomsbury Handbook of Sound Art explores and delineates what Sound Art is in the 21st century. Sound artworks today embody the contemporary and transcultural trends towards the post-apocalyptic, a wide sensorial spectrum of sonic imaginaries as well as the decolonization and deinstitutionalization around the making of sound. Within the areas of musicology, art history, and, later, sound studies, Sound Art has evolved at least since the 1980s into a turbulant field of academic critique and aesthetic analysis. Summoning artists, researchers, curators, and critics, this volume takes note of and reflects the most recent shifts and drifts in Sound Art–rooted in sonic histories and implying future trajectories.

This peer-reviewed volume contains selected papers from the First EAGLE International Conference on Information Technologies for Epigraphy and Cultural Heritage, held in Paris between September 29 and October 1, 2014. Here are assembled for the first time in a unique volume contributions regarding all aspects of Digital Epigraphy: Models, Vocabularies, Translations, User Engagements, Image Analysis, 3D methodologies, and ongoing projects at the cutting edge of digital humanities. The scope of this book is not limited to Greek and Latin epigraphy; it provides an overview of projects related to all epigraphic inquiry and its related communities. This approach intends to furnish the reader with the broadest possible perspective of the discipline, while at the same time giving due attention to the specifics of unique issues.

“Ultimately, this is a remarkable book, a practical/academic, and a comprehensive bibliography rolled into one. Its a single, bright sword cut across the various murky green ITtopics. And if my mistakes and lessons learned through the green ITjourney are any indication, this book will be used every day byfolks interested in greening IT.”—Simon Y. Liu, Ph.D. & Ed.D.Editor-in-Chief, IT Professional Magazine, IEEEComputer Society, Director, U.S. National AgriculturalLibrary This book presents a holistic perspective on Green IT bydiscussing its various facets and showing how to strategicallyembrace it Harnessing Green IT: Principles andPractices examines various ways of making computing andinformation systems greener – environmentally sustainable - as well as several means of using Information Technology (IT) as a tool and an enabler to improve the environmental sustainability.The book focuses on both greening of IT and greening by IT –complimentary approaches to attaining environmental sustainability. In a single volume, it comprehensively covers severalky aspects of Green IT - green technologies, design, standards,maturity models, strategies and adoption -, and presents a clearapproach to greening IT encompassing green use, green disposal,green design, and green manufacturing. It also illustrates how strategically apply green IT in practice in several areas. Key Features:

Presents a comprehensive coverage of key topics of importantand practical relevance - green technologies, design,standards, maturity models, strategies and adoption Highlights several useful approaches to embracing green IT in several areas Features chapters written by accomplished experts from industryand academia who have first-hand knowledge and expertise inspecific areas of green IT Presents a set of review and discussion questions for eachchapter that will help the readers to examine and explore the greenIT domain further Includes a companion website providing resources forfurther information and presentation slides This book will be an invaluable resource for IT Professionals,academics, students, researchers, project leaders/managers, ITbusiness executives,CIOs, CTOs and anyone interested in Green ITand harnessing it to enhance our environment.

The Theory of the Avant-garde:

Linnaeus in Italy

Toward an Archaeology of Hearing and Seeing by Technical Means

Grammar and Vocabulary for the Real World. Per Le Scuole Superiori

Deep Time of the Media

Seven Works of Vasubandhu, the Buddhist Psychological Doctor

In this historical volume Salvatore Callifano traces the developments of ideas and theories in physical and theoretical chemistry throughout the 20th century. This seldom-told narrative provides details of topics from thermodynamics to atomic structure, radioactivity and quantum chemistry. Callifano ’s expertise as a physical chemist allows him to judge the historical developments from the point of view of modern chemistry. This detailed and unique historical narrative is fascinating for chemists working in the fields of physical chemistry and is also a useful resource for science historians who will enjoy access to material not previously dealt with in a coherent way.

Vasubandhu is one of the most prominent figures in the development of Mahayana Buddhism in India. His name can be found in any history of Buddhism or of India in the Gupta period. However hardly any of his works has been translated into English. The seven treatises presented here are complete works with a most varied range of topics and serve to at least as an introduction to his thought. This collection of translations includes the Vada-Vidhi, a work on logic; the Panca-skandhaka-Prakarana, which deals with the ‘aggregates’ making up ‘personality’; the Karmasiddhi-prakarana, which in explaining psychic continuity, also attacks many features of earlier Buddhist psychology; the famous Vimsatika and Trimsika, which take Buddhist psychology into hitherto unexplored areas; the Mahayana-samadhi-samuccaya, one of the ‘Tri-svabhava-nidreśa which shows a way for riding consciousness of ensnaring mental constructions. A glossary of key words is included, as are the texts of those works which survive in Sanskrit. Each translation is prefaced by an explanatory introduction and is followed by notes. These include also references to other Indian philosophical systems and occasional comparisons with modern Western psychological systems, particularly where the latter seem inadequate in comparison with Vasubandhu’s Yogacara.

Sovjetregisseur en filmmaker Sergeï M. Eisenstein werkte in 1946 en 1947 een jaar voor zijn dood aan een algemene geschiedenis van de cinema. De manier waarop hij de geschiedschrijving van van de cinema benadert, is tegelijk fascinerend in haar ambitie en uiterst modern in haar methode. Eisenstein presenteert hier een virtuele wereldkaart van alle aan de bioscoop gerelateerde

cinema, en ontwikkelt op hetzelfde moment een methode voor het schrijven van een geschiedenis die net als de cinema is gebaseerd op montage. De teksten van Eisenstein worden begeleid door een reeks kritische essays, geschreven door enkele van ’s werelds meest gekwalificeerde Eisensteinkenners.

A quest to find something new by excavating the “deep time” of media’s development—not by simply looking at new media’s historic forerunners, but by connecting models, machines, technologies, and accidents that have until now remained separated. Deep Time of the Media takes us on an archaeological quest into the hidden layers of media development—dynamic moments of intense activity in media design and construction that have been largely ignored in the historical-media archaeological record. Siegfried Zielinski argues that the history of the media does not proceed predictably from primitive tools to complex machinery; in Deep Time of the Media, he illuminates turning points of media history—fractures in the predictable—that help us see the new in the old.

Drawing on original source materials, Zielinski explores the technology of devices for hearing and seeing through two thousand years of cultural and technological history. He discovers the contributions of “dreamers and modelers” of media worlds, from the ancient Greek philosopher Empedocles and natural philosophers of the Renaissance and Baroque periods to Russian avant-gardists of the early twentieth century. “Media are spaces of action for constructed attempts to connect what is separated,” Zielinski writes. He describes models and machines that make this connection: including a theater of mirrors in sixteenth-century Naples, an automaton for musical composition created by the seventeenth-century Jesuit Athanasius Kircher, and the eighteenth-century electrical tele-writing machine of Joseph Mazzolini, among others. Uncovering these moments in the media-archaeological record, Zielinski says, brings us into a new relationship with present-day moments; these discoveries in the “deep time” media history shed light on today’s media landscape and may help us map our expedition to the media future.

Encyclopedia of Language and Education

Latin Alive

Headway Digital. Intermediate. Student’s Book. Per Le Scuole Superiori

Cultural Content in the Digital Age

The Emergence of Multiple-Text Manuscripts

Higher Order Dynamic Mode Decomposition and Its Applications

The Cambridge IGCSE Physics Coursebook has been written and developed to provide full support for the University of Cambridge International Examinations (CIE) IGCSE Physics syllabus (0625). The book is in full colour and includes a free CD-ROM. Topics are introduced in terms of their relevance to life in the 21st century. The CD-ROM offers a full range of supporting activities for independent learning, with exemplar examination questions and worked answers with commentary. Activity sheets and accompanying notes are also included on the CD-ROM.Written and developed to provide full support for the Cambridge IGCSE Physics syllabus offered by CIE.

This book constitutes the refereed proceedings of the 16th International Conference on Virtual Reality and Augmented Reality, EuroVR 2019, held in Tallinn, Estonia, in October 2019. The 11 full papers and 5 short papers presented together with 8 scientific posters were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections named:

Immersive Interaction; Training, Teaching and Learning; Industrial Applications and Augmented Reality, EuroVR 2019, held in Tallinn, Estonia, in October 2019. The 11 full papers and 5 short papers presented together with 8 scientific posters were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections named:

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Why is catch-up rare and why have some nations succeeded while others failed? This volume examines how nations learn by reviewing key structural and contingent factors that contribute to dynamic learning and catch-up.

In this exclusive English edition of the elucidating and award-winning investigation of Archimedes’ life, Mario Geymonat provides fresh insights into one of the greatest minds in the history of humankind. Archimedes (ca 287 BCE-ca 212 BCE) was a mathematician, physicist, scientist, and engineer. Born in Syracuse, Sicily, the Greek Archimedes was an inventor par excellence. He not only explored the displacement of water and sand, worked out the principle of levers, developed an approximation of pi, discovered ways to determine the areas and volumes of solids, and invented the monumental Archimedes’ screw (a machine for raising water). Archimedes also developed machinery that his fellow Syracusans successfully employed to defend their native city against the Romans. The Great Archimedes is already a highly acclaimed telling of the life and mind of one of antiquity’s most important and innovative thinkers, and, now in translation, it is sure to be cherished by experts and novices alike across the English-speaking world. This wonderfully illustrated and multifarious book is enriched by numerous quotations and testimonies from ancient sources.

The Spatial Logic of the Virtual and Its Meaning for the Real

Acta Conventus Neo-Latini Torontonensis

Proceedings of the First EAGLE International Conference

The Survival of Latin in English and the Romance Languages

Experimenta compact. Con DVD. Per le Scuole superiori

Students, Teachers, and Traditions of Dissection in Renaissance Venice

In Latin Alive - Joseph Solodow tells the story of how Latin developed into modern French, Spanish, and Italian, and deeply affected English as well. Offering a gripping narrative of language change, Solodow charts Latin’s course from classical times to the modern era, with focus on the first millennium of the Common Era. Though the Romance languages evolved directly from Latin, Solodow shows how every important feature of Latin’s evolution is also reflected in English. His story includes scores of intriguing etymologies, along with many concrete examples of texts, studies, scholars, anecdotes, and historical events; observations on language; and more. Written with crystalline clarity, this book tells the story of the Romance languages for the general reader and to illustrate so amply Latin’s many-sided survival in English as well.

Higher Order Dynamic Mode Decomposition and Its Applications provides detailed background theory, as well as several fully explained applications from a range of industrial contexts to help readers understand and use this innovative algorithm. Data-driven modelling of complex systems is a rapidly evolving field, which has applications in domains including engineering, medical, biological, and physical sciences, where it is providing ground-breaking insights into complex systems that exhibit rich multi-scale phenomena in both time and space. Starting with an introductory summary of established order reduction techniques like POD, DEIM, Koopman, and DMD, this book proceeds to provide a detailed explanation of higher order DMD, and to explain its advantages over other methods. Technical details of how the HODMD can be applied to a range of industrial problems will help the reader decide how to use the method in the most appropriate way, along with example MATLAB codes and advice on how to analyse and present results. Includes instructions for the implementation of the HODMD, MATLAB codes, and extended discussions of the algorithm Includes descriptions of other order reduction techniques, and compares their strengths and weaknesses Provides examples of applications involving complex flow fields, in contexts including aerospace engineering, geophysical flows, and wind turbine design

"This volume provides a critical look at that which has been a watershed in Dominique Perrault's creative development, namely the realization of the Velodrome and Olympic Swimming Pool in Berlin: a fundamental sign of an architectural research in pursuit of redesigning the landscape. It examines his recent works which have been characterized by a continuous attention to research on architectural language and the relationship between public and private space in an attempt to trace a "third way" - moving towards an integration with the environment in which the geographic matrix and experimentation take precedence over historical aspects. The volume features two very recent projects under way started in 2004 and 2003 respectively, the Ewha Women's Campus in Seoul, Korea and the new Mariinsky Opera House in Saint Petersburg." "These works and other such as the Bibliothèque nationale de France in Paris, the extension of the European Community's Court of Justice in Luxembourg and the Media Library of Venissieux have served to confirm Dominique Perrault's position among the most significant protagonists of contemporary architecture." --Book Jacket.

Grapevine is a crop of major economical interest, and wine represents a multicultural heritage which has been growing since several milleniums. Yet, modern viticulture must face several challenges. Global climate has increased berry sugar content (and alcohol in the wine) whereas phenolic and aromatic ripeness are not always achieved. Water supply is becoming shorter. New varieties better adapted to new climatic conditions might have to be planted, which may affect wine typicity. Phytochemical treatments are more controlled, and the consumer pays increasing attention to environmentally safe practices. New methods reducing pesticide use, but maintaining yield and typicity, must be designed. The present book illustrates the recent progress made in ecophysiology, molecular and cell biology, and pathology of grapevine, as well as in precision viticulture and berry composition. Combination of these new tools with field observations will undoubtly make it easier to face the challenges described above. These multidisciplinary contributions will be of interest to anyone involved in grapevine and wine activities.

Principles and Practices

Sergei M. Eisenstein

Handbook of International Futurism

eCulture

Pathways to Modern Chemical Physics

Information Technologies for Epigraphy and Cultural Heritage

This volume provides an overview of contemporary Italian philosophy from the perspective of animality. Its rationale rests on two main premises: the great topicity of both Italian contemporary philosophy (the so-called ‘Italian Theory’) and of the animal question (the so-called ‘animal turn’ in the humanities and the social sciences) in the contemporary philosophical panorama. The volume not only intersects these two axes, illuminating Italian Theory through the animal question, but also proposes an original thesis: that the animal question is a central and founding issue of contemporary Italian philosophy. It combines historical-descriptive chapters with analyses of the theme in several philosophical branches, such as biopolitics, Posthumanism, Marxism, Feminism, Antispeciesism and Theology, and with original contributions by renowned authors of contemporary Italian (animal) philosophy. The volume is both historical-descriptive and speculative and is intended for a broad academic audience, embracing both Italian studies and Animal studies at all levels.

Reading Newton in Early Modern Europe investigates how, when, where and why Newton’s Principia was interpreted by readers in Italy, Spain, the Netherlands, England and Ireland. University textbooks and popular simplified vernacular texts created new audiences for early modern science.

In this third, fully revised edition, the 10 volume Encyclopedia of Language and Education offers the newest developments, including an entirely new volume of research and scholarly content, essential to the field of language teaching and learning in the age of globalization. In the selection of topics and contributors, the Encyclopedia reflects the depth of disciplinary knowledge, breadth of interdisciplinary perspective, and diversity of socio-geographic experience in the language and education field. Throughout, there is an inclusion of contributions from non-English speaking and non-western parts of the world, providing truly global coverage. Furthermore, the authors have sought to integrate these voices fully into the whole, rather than as special cases or international perspectives in separate sections. The Encyclopedia is a necessary reference set for every university and college library in the world that serves a faculty or school of education, as well as being highly relevant to the fields of applied and socio-linguistics. The publication of this work charts the further deepening and broadening of the field of language and education since the publication of the first edition of the Encyclopedia in 1997 and the second edition in 2008.

Do virtual museums really provide added value to end-users, or do they just contribute to the abundance of images? Does the World Wide Web save endangered cultural heritage, or does it foster a society with less variety? These and other related questions are raised and answered in this book, the result of a long path across the digital heritage landscape. It provides a comprehensive view on issues and achievements in digital collections and cultural content.

Bilingual and Multilingual Education

Architectonics of Game Spaces

Reception and Legacy

The Keepers of Light

A Biographical and Critical Guide

The Accademia Del Cimento and Its European Context

This volume sheds light on the most relevant pieces of evidence for ancient Orphism, collected in the recent edition by Alberto Bernabé. It contains 65 short new studies on Orphic fragments by leading international scholars who comment one of the most controversial phenomena in Antiquity from a plurality of perspectives. Readers will acquire a global vision of the multiple dimensions of the Orphic tradition, as well as many new insights into particular Orphic fragments.

The anatomy theater is where students of the human body learn to isolate structures in decaying remains, scrutinize their parts, and assess their importance. Taking a new look at the history of anatomy, the author places public dissections alongside private ones to show how the anatomical theater was both a space of philosophical learning and a place where students learned to behave in a civil manner towards their teachers, their peers, and the corpse.

In Elements, Principles and Particles, Antonio Clericuzio explores the relationships between chemistry and corpuscular philosophy in the age of the Scientific Revolution. Science historians have regarded chemistry and corpuscular philosophy as two distinct traditions. Clericuzio's view is that since the beginning of the 17th century atomism and chemistry were strictly connected. This is attested by Daniel Sennert and by many hitherto little-known French and English natural philosophers. They often combined a corpuscular theory of matter with Paracelsian chemical (and medical) doctrines. Boyle plays a central part in the present book: Clericuzio redefines Boyle's chemical views, by showing that Boyle did not subordinate chemistry to the principles of mechanical philosophy. When Boyle explained chemical phenomena, he had recourse to corpuscles endowed with chemical, not mechanical, properties. The combination of chemistry and corpuscular philosophy was adopted by a number of chemists active in the last decades of the 17th century, both in England and on the Continent. Using a large number of primary sources, the author challenges the standard view of the corpuscular theory of matter as identical with the mechanical philosophy. He points out that different versions of the corpuscular philosophy flourished in the 17th century. Most of them were not based on the mechanical theory, i.e. on the view that matter is inert and has only mechanical properties. Throughout the 17th century, active principles, as well as chemical properties, are attributed to corpuscles. Given its broad coverage, the book is a significant contribution to both history of science and history of philosophy.

This book explores the interconnections and differentiations between artisanal workshops and alchemical laboratories and between the arts and alchemy from Antiquity to the eighteenth century. In particular, it scrutinizes epistemic exchanges between producers of the arts and alchemists. In the fifteenth and sixteenth centuries the term laboratorium uniquely referred to workplaces in which 'chemical' operations were performed: smelting, combustion, distillation, dissolution and precipitation. Artisanal workshops equipped with furnaces and fire in which 'chemical' operations were performed were also known as laboratories. Transmutational alchemy (the transmutation of all base metals into more noble ones, especially gold) was only one aspect of alchemy in the early modern period. The practice of alchemy was also about the chemical production of things—medicines, porcelain, dyes and other products as well as precious metals and about the knowledge of how to produce them. This book uses examples such as the Uffizi to discuss how Renaissance courts established spaces where artisanal workshops and laboratories were brought together, thus facilitating the circulation of materials, people and knowledge between the worlds of craft (today's decorative arts) and alchemy. Artisans became involved in alchemical pursuits beyond a shared material culture and some crafts relied on chemical expertise offered by scholars trained as alchemists. Above all, texts and books, products and symbols of scholarly culture played an increasingly important role in artisanal workshops. In these workplaces a sort of hybrid figure was at work. With one foot in artisanal and the other in scholarly culture this hybrid practitioner is impossible to categorize in the mutually exclusive categories of scholar and craftsman. By the seventeenth century the expertise of some glassmakers, silver and goldsmiths and producers of porcelain was just as based in the worlds of alchemical and bookish learning as it was grounded in hands-on work in the laboratory. This book suggests that this shift in workshop culture facilitated the epistemic exchanges between alchemists and producers of the decorative arts.

Performer Shaping Ideas. Idee Per Imparare. Per Le Scuole Superiori

Laboratories of Art

The Great Archimedes

Elements, Principles and Corpuscles

How Nations Learn

A History & Working Guide to Early Photographic Processes