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**KEY=JUNE - SAWYER ASIA**

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## Rethinking the Andes-Amazonia Divide

### A cross-disciplinary exploration

UCL Press **Nowhere on Earth is there an ecological transformation so swift and so extreme as between the snow-line of the high Andes and the tropical rainforest of Amazonia. The different disciplines that research the human past in South America have long tended to treat these two great subzones of the continent as self-contained enough to be taken independently of each other. Objections have repeatedly been raised, however, to warn against imagining too sharp a divide between the people and societies of the Andes and Amazonia, when there are also clear indications of significant connections and transitions between them. Rethinking the Andes-Amazonia Divide brings together archaeologists, linguists, geneticists, anthropologists, ethnohistorians and historians to explore both correlations and contrasts in how the various disciplines see the relationship between the Andes and Amazonia, from deepest prehistory up to the European colonial period. The volume emerges from an innovative programme of conferences and symposia conceived explicitly to foster awareness, discussion and co-operation across the divides between disciplines. Underway since 2008, this programme has already yielded major publications on the Andean past, including History and Language in the Andes (2011) and Archaeology and Language in the Andes (2012).**

# The Rhetoric of City Views in the Sixteenth Century

**BRILL** Ryan E. Gregg relates how the Holy Roman Emperor Charles V and Duke Cosimo I of Tuscany both employed city view artists such as Anton van den Wyngaerde and Giovanni Stradano to aid in constructing authority.

# The Literary Absolute

# The Theory of Literature in German Romanticism

**State University of New York Press** The first authoritative study of the emergence of the modern concept of literature in German romanticism.

# Computer Simulation of Liquids

**Oxford University Press** Computer simulation is an essential tool in studying the chemistry and physics of liquids. Simulations allow us to develop models and to test them against experimental data. This book is an introduction and practical guide to the molecular dynamics and Monte Carlo methods.

# Gravel-Bed Rivers

# Fluvial Processes, Engineering and Management

# Optical Fiber Communications Systems

# Theory and Practice with MATLAB®

## and Simulink® Models

**CRC Press** Carefully structured to provide practical knowledge on fundamental issues, **Optical Fiber Communications Systems: Theory and Practice with MATLAB® and Simulink® Models** explores advanced modulation and transmission techniques of lightwave communication systems. With coverage ranging from fundamental to modern aspects, the text presents optical communication techniques and applications, employing single mode optical fibers as the transmission medium. With MATLAB and Simulink models that illustrate methods, it supplies a deeper understanding of future development of optical systems and networks. The book begins with an overview of the development of optical fiber communications technology over the last three decades of the 20th century. It describes the optical transmitters for direct and external modulation technique and discusses the detection of optical signals under direct coherent and incoherent reception. The author also covers lumped Er:doped and distributed Raman optical amplifiers with extensive models for the amplification of signals and structuring the amplifiers on the Simulink platform. He outlines a design strategy for optically amplified transmission systems coupled with MATLAB Simulink models, including dispersion and attenuation budget methodology and simulation techniques. The book concludes with coverage of advanced modulation formats for long haul optical fiber transmission systems with accompanied Simulink models. Although many books have been written on this topic over the last two decades, most of them present only the theory and practice of devices and subsystems of the optical fiber communications systems in the fields, but do not illustrate any computer models to represent the true practical aspects of engineering practice. This book fills the need for a text that emphasizes practical computing models that shed light on the behavior and dynamics of the devices.

## Babylon Girls

## Black Women Performers and the Shaping of the Modern

**Duke University Press** **Babylon Girls** is a groundbreaking cultural history of the African American women who performed in variety shows—chorus lines, burlesque revues, cabaret acts, and the like—between 1890 and 1945. Through a consideration of the gestures, costuming, vocal techniques, and stagecraft developed by African American singers and dancers, Jayna Brown explains how these women shaped the movement and style of an emerging urban popular culture. In an era of U.S. and

British imperialism, these women challenged and played with constructions of race, gender, and the body as they moved across stages and geographic space. They pioneered dance movements including the cakewalk, the shimmy, and the Charleston—black dances by which the “New Woman” defined herself. These early-twentieth-century performers brought these dances with them as they toured across the United States and around the world, becoming cosmopolitan subjects more widely traveled than many of their audiences. Investigating both well-known performers such as Ada Overton Walker and Josephine Baker and lesser-known artists such as Belle Davis and Valaida Snow, Brown weaves the histories of specific singers and dancers together with incisive theoretical insights. She describes the strange phenomenon of blackface performances by women, both black and white, and she considers how black expressive artists navigated racial segregation. Fronting the “picaninny choruses” of African American child performers who toured Britain and the Continent in the early 1900s, and singing and dancing in *The Creole Show* (1890), *Darktown Follies* (1913), and *Shuffle Along* (1921), black women variety-show performers of the early twentieth century paved the way for later generations of African American performers. Brown shows not only how these artists influenced transnational ideas of the modern woman but also how their artistry was an essential element in the development of jazz.

## Poverty Strategies in Asia

### A Growth Plus Approach

Edward Elgar Publishing . . . the volume makes interesting reading. . . The language of the text is indeed lucid and the organization of the materials could not have been better. Arup Mitra, *The Developing Economies* This is an important book making a convincing case that structural elements are of crucial importance in filtering the impact of growth on poverty. A successful development strategy needs to address these structural elements at the country level and modify them in order to take greater advantage of the potential benefits of globalization in reducing poverty. Erik Thorbecke, Cornell University, US This volume makes an important contribution to our understanding of the complex relationship between economic growth and poverty reduction. The focus on assessing the impact of specific poverty-reduction interventions at the disaggregated, case-study level marks an important and welcome departure from the standard approach to research in this area . . . researchers and practitioners working in the field of poverty reduction and development in Asia and beyond will find much to interest them in this stimulating and informative volume. Colin Kirkpatrick, University of Manchester, UK *Poverty Strategies in Asia* is an examination of a wide range of measures aimed at reducing poverty in the region. It is widely recognized that while high and sustained

economic growth is critical for poverty reduction, there are other policy interventions that may also be significant in a growth plus approach to poverty reduction. This volume brings together a series of case studies on the poverty impact of alternative interventions in a broad range of Asian economies. The measures examined within the book cover trade liberalization both in general and in a specific market, infrastructure investment (particularly in roads), population policies, cash transfers, microfinance, employment guarantee programs and contract farming. The countries covered include the Philippines, Lao PDR, Pakistan, India and Thailand. While the results illustrated by the contributors are mixed, they demonstrate the potential for further progress in poverty reduction. This latest joint publication by the ADBI and Edward Elgar Publishing will be warmly welcomed by scholars and researchers of Asian studies and development. Professional economists within international and bilateral development agencies and policymakers will also find much to engage them.

## Rhetorical Citizenship and Public Deliberation

Penn State Press **Citizenship** has long been a central topic among educators, philosophers, and political theorists. Using the phrase “rhetorical citizenship” as a unifying perspective, *Rhetorical Citizenship and Public Deliberation* aims to develop an understanding of citizenship as a discursive phenomenon, arguing that discourse is not prefatory to real action but in many ways constitutive of civic engagement. To accomplish this, the book brings together, in a cross-disciplinary effort, contributions by scholars in fields that rarely intersect. For the most part, discussions of citizenship have focused on aspects that are central to the “liberal” tradition of social thought—that is, questions of the freedoms and rights of citizens and groups. This collection gives voice to a “republican” conception of citizenship. Seeing participation and debate as central to being a citizen, this tradition looks back to the Greek city-states and republican Rome. Citizenship, in this sense of the word, is rhetorical citizenship. Rhetoric is thus at the core of being a citizen. Aside from the editors, the contributors are John Adams, Paula Cossart, Jonas Gabrielsen, Jette Barnholdt Hansen, Kasper Møller Hansen, Sine Nørholm Just, Ildikó Kaposi, William Keith, Bart van Klink, Marie Lund Klujeff, Manfred Kraus, Oliver W. Lembcke, Berit von der Lippe, James McDonald, Niels Møller Nielsen, Tatiana Tatarchevskiy, Italo Testa, Georgia Warnke, Kristian Wedberg, and Stephen West.

# Digital Art Through the Looking Glass

## New Strategies for Archiving, Collecting and Preserving in Digital Humanities

Edition Donau-Universität Krems **Digital art challenges archiving, collecting and preserving methods within and outside of gallery, library, archive and museum (GLAM) institutions. By its media, art in the digital sphere is processual, contextual, modular and ephemeral, and its creative process is collaborative. From artists, scholars, technicians and conservators-to preserve this contemporary art is a transdisciplinary task. This book brings together leading international experts from digital art theory and preservation, digital humanities, collection management, conservation and media art histories. In a transdisciplinary approach, theoretic and practice-based research from these stakeholders in art, research, education and exhibition are presented to create an overview of present preservation methods and discuss demands and opportunities for the future. Finally, the need for a new appropriate museum and archive infrastructure is shown to preserve the art of our time.**

## Human Lifeworlds

## The Cognitive Semiotics of Cultural Evolution

Peter Lang GmbH, Internationaler Verlag Der Wissenschaften **This book, which presents a cognitive-semiotic theory of cultural evolution, including that taking place in historical time, analyses various cognitive-semiotic artefacts and abilities. What makes the human species human is to a considerable extent the semiotic and cultural skills by which she endows her Lifeworld with meaning.**

## Chemical Warfare Agents

## Toxicity at Low Levels

CRC Press Many books cover the emergency response to chemical terrorism. But what happens after the initial crisis? Chlorine, phosgene, and mustard were used in World War I. Only years after the war were the long-term effects of these gases realized. In the 60s, 70s, and 80s, these and other agents were used in localized wars. **Chemical Warfare Agents: Toxicity at Low Levels** explores the long range effects of, protection against, and remedies for chemicals used during war and the chronic problems possibly resulting from toxic exposures during the Persian Gulf War.

## Quodvultdeus: a Bishop Forming Christians in Vandal Africa

## A Contextual Analysis of the Pre-baptismal Sermons attributed to Quodvultdeus of Carthage

BRILL **Quodvultdeus: a Bishop Forming Christians in Vandal Africa** presents a new look on the pre-baptismal catecheses of Quodvultdeus, the bishop of Carthage in the 430s.

## The Lizards, Crocodiles, and Turtles of Honduras

## Systematics, Distribution, and Conservation

Harvard University Museum of Comparative Zoology **The Lizards, Crocodiles, and Turtles of Honduras** is the final installment of a series by James R. McCranie documenting the amphibians and reptiles of Honduras. The book is thoroughly illustrated by color photographs and maps, with discussion of conservation status and identification keys in both English and Spanish.

# Proteomics Sample Preparation

John Wiley & Sons This long-awaited first guide to sample preparation for proteomics studies overcomes a major bottleneck in this fast growing technique within the molecular life sciences. By addressing the topic from three different angles -- sample, method and aim of the study -- this practical reference has something for every proteomics researcher. Following an introduction to the field, the book looks at sample preparation for specific techniques and applications and finishes with a section on the preparation of sample types. For each method described, a summary of the pros and cons is given, as well as step-by-step protocols adaptable to any specific proteome analysis task.

# Biomarkers for Immunotherapy of Cancer

## Methods and Protocols

Humana This book provides the immune oncology (IO) community with a deeper understanding of the scope of the biomarker methods to potentially improve the outcome from immunotherapy. The editors secured the input from experts in the field dedicated to translating scientific research from bench to bedside was submitted. The book provides not only details about the technical, standardization and interpretation aspects of the methods but also introduces the reader to the background information and scientific justification for selected biomarkers and assays. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

# Italy in the New International Order, 1917-1922

Springer Nature This edited collection offers the first systematic account in English of Italy's international position from Caporetto - a major turning-point in Italy's participation in the First World War - to the end of the liberal regime in Italy in 1922. It shows that after the 'Great War', not only did Italy establish itself as a regional power but also achieved its post-unification ambition to be recognised, at least from a formal viewpoint, as a great power. This subject is addressed through multiple perspectives, covering Italy's relations and mutual perceptions vis-à-vis the Allies, the

vanquished nations, and the 'New Europe'. Fourteen contributions by leading historians reappraise Italy's role in the construction of the post-war international order, drawing on extensive multi-archival and multi-national research, combining for the first time documents from American, Austrian, British, French, German, Italian, Russian and former Yugoslav archives.

## Russian Dada 1914-1924

MIT Press A lavishly illustrated volume that views Russian avant-garde art through the lens of Dada. This is the first book to approach Russian avant-garde art from the perspective of the anti-art canons associated with the international Dada movement. The works described and documented in *Russian Dada* were produced at the height of Dada's flourishing, between World War I and the death of Vladimir Lenin—who, incidentally, was a frequent visitor to Cabaret Voltaire in Zurich, the founding site of Dada. Like the Dadaists, the Russian avant-gardists whose works appear in this volume strove for internationalism, fused the verbal and visual, and engaged in eccentric practices and pacifist actions, including outrageous performances and anti-war campaigns. The works featured in this lavishly illustrated volume thrive on negation, irony, and absurdity, with the goal of constructing a new aesthetic paradigm that is an alternative to both positivist and rationalist Constructivism as well as metaphysical and cosmic Suprematism. The text and images show that, while not neglecting the serious project of public agitation for Marxist ideology, the artists often pushed the Dadaesque into Russian mass culture, in the form of absurdist and chance-based collages and designs. In such works, Russian “da, da (yes, yes)” was converted into a defiant “nyet, nyet (no, no)”. *Russian Dada*, which accompanies a major exhibition at the Museo Reina Sofia, Madrid, includes 250 images, almost all in color, and essays by leading art historians. An appendix provides a wide selection of primary texts—historical writings by such key figures as Nikolai Punin, Kazimir Malevich, Varvara Stepanova, and Aleksandr Rodchenko. Essays by Margarita Tupitsyn, Victor Tupitsyn, Natasha Kurchanova, Olga Burenina-Petrova Artists Natan Altman, Vasilii Ermilov, 41°, Ivan Kluin, Gustav Klutskis, Aleksei Kruchenykh, Valentina Kulagina, Vladimir Lebedev, Kazimir Malevich, Aleksei Morgunov, the Nothingdoers, Ivan Puni, Aleksandr Rodchenko, Olga Rozanova, Sergei Sharshun, Varvara Stepanova, Wladyslaw Strzeminski, Vladimir Tatlin, Igor Terentiev, Nadezhda Udaltsova, Ilya Zdanevich, Kirill Zdanevich Copublished with Museo Nacional Centro de Arte Reina Sofia in Madrid

## Chemical Warfare Agents

# Chemistry, Pharmacology, Toxicology, and Therapeutics, Second Edition

**CRC Press** The first edition of this book, *Chemical Warfare Agents: Toxicity at Low Levels*, was published just prior to the terrorist attacks of September 11th, 2001. Reflecting a greater sense of urgency within the field of chemical defense since this event, research related to chemical warfare agents (CWAs) continues to expand at a remarkable pace. *Chemical Warfare Agents: Pharmacology, Toxicology, and Therapeutics, Second Edition* explores the latest methods and products for preventing, diagnosing, and treating the acute and chronic effects of toxic CWA exposure. This edition cites the key developments in chemical defense research since 2001, including new epidemiological or clinical studies of exposed or potentially exposed populations; new treatment concepts and products; improved organization of the national response apparatus in the U.S. addressing the potential for CWA terrorism; and improved diagnostic tests that enable rapid diagnosis and treatment. Leading researchers explain how these breakthroughs help researchers determine physiologically relevant detection thresholds and develop more effective countermeasures and national response procedures. *Chemical Warfare Agents* provides first responders and emergency medical teams with the most up-to-date information they need to prepare for and handle natural disasters, chemical spills, terrorism, and warfare situations—quickly and effectively.

## Toxicity Testing in the 21st Century A Vision and a Strategy

**National Academies Press** Advances in molecular biology and toxicology are paving the way for major improvements in the evaluation of the hazards posed by the large number of chemicals found at low levels in the environment. The National Research Council was asked by the U.S. Environmental Protection Agency to review the state of the science and create a far-reaching vision for the future of toxicity testing. The book finds that developing, improving, and validating new laboratory tools based on recent scientific advances could significantly improve our ability to understand the hazards and risks posed by chemicals. This new knowledge would lead to much more informed environmental regulations and dramatically reduce the need for animal testing because the new tests would be based on human cells and cell components. Substantial scientific

efforts and resources will be required to leverage these new technologies to realize the vision, but the result will be a more efficient, informative and less costly system for assessing the hazards posed by industrial chemicals and pesticides.

## Analytical Voltammetry

Elsevier Science The aim of this volume is to review the state-of-the-art in analytical voltammetry with regard to theory and instrumentation, and show how these relate to the analysis of inorganic, organometallic, organic and biological molecules. Modern voltammetric techniques have practical applications in biological, pharmaceutical and environmental chemistry. The growing importance of voltammetry in the development of modified electrodes and biological electrodes and chemical and biological sensors is also highlighted.

## History Of Ancient Pottery

### Greek, Etruscan, And Roman;

Wentworth Press This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

## Test No. 489: In Vivo Mammalian Alkaline Comet Assay

OECD Publishing The in vivo alkaline single cell gel electrophoresis assay, also called alkaline Comet Assay is a method measuring DNA strand breaks in eukaryotic cells.

# Wildlife and Countryside ACT 1981

## Contemporary Rhetorical Citizenship

Leiden University Press - Rhetoric in Society **This book presents studies from different academic fields of theoretical issues raised by public discourse, focusing on understanding and evaluating how its many manifestations both reflect, shape, and challenge the society it is a part of. The book also presents analyses of examples from around the world of civic communication, ranging from public hearings about same-sex marriage over polemical letters to the editor to public displays of knitting as a protest form.**

## Gel Electrophoresis of Proteins

### A Practical Approach

Oxford University Press, USA

## Ystoria Taliesin

## Disclosure of Payments by Resource Extraction Issuers (Us Securities and Exchange Commission Regulation) (Sec) (2018 Edition)

Independently Published **The Law Library presents the complete text of the Disclosure of Payments by Resource Extraction Issuers (US Securities and Exchange Commission Regulation) (SEC) (2018 Edition). Updated as of May 29, 2018 We are adopting new rules and an amendment to a new form pursuant to Section 1504 of the Dodd-Frank Wall Street Reform and Consumer Protection Act relating to disclosure of payments by resource extraction issuers. Section 1504 added Section 13(q) to the Securities Exchange Act of 1934, which requires the Commission to issue rules**

requiring resource extraction issuers to include in an annual report information relating to any payment made by the issuer, a subsidiary of the issuer, or an entity under the control of the issuer, to a foreign government or the Federal Government for the purpose of the commercial development of oil, natural gas, or minerals. Section 13(q) requires a resource extraction issuer to provide information about the type and total amount of such payments made for each project related to the commercial development of oil, natural gas, or minerals, and the type and total amount of payments made to each government. In addition, Section 13(q) requires a resource extraction issuer to provide information regarding those payments in an interactive data format. This ebook contains: - The complete text of the Disclosure of Payments by Resource Extraction Issuers (US Securities and Exchange Commission Regulation) (SEC) (2018 Edition) - A dynamic table of content linking to each section - A table of contents in introduction presenting a general overview of the structure

## Civil Aviation Act 1982 (UK)

Createspace Independent Publishing Platform Civil Aviation Act 1982 (UK) The Law Library presents the official text of the Civil Aviation Act 1982 (UK). Updated as of March 26, 2018 This book contains: - The complete text of the Civil Aviation Act 1982 (UK) - A table of contents with the page number of each section

## Support for Secession

## Lancashire and the American Civil War

## Draft Toxicological Profile for Ethylbenzene

## GCSE Latin Anthology for OCR Teacher's Handbook

OUP Oxford Handbook to accompany the students' anthology of prose and verse extracts with questions, glossaries and end vocabulary to provide motivation and well-supported resource for the Prose and Literature OCR examinations.

# Iron Porphyrins

Wiley-VCH Porphyrins play a vital role in many biological functions including oxygen transport, electron transfer and catalyzing the incorporation of oxygen into other molecules. This current survey discusses the use of modern physical techniques to probe porphyrin structure and function. The authors review the data available through a particular technique and show what can be learned therefrom about the (electronic) structure and function of biologically important porphyrins. The techniques include magnetic circular dichroism, X-ray absorption fine structure (EXAFS) and Mössbauer spectroscopies. All contributors are well known in their respective fields, enjoying world-wide reputation.

# Exceeding Reason

## Freedom and Religion in Schelling and Nietzsche

Walter de Gruyter GmbH & Co KG The work of the later Schelling (in and after 1809) seems antithetical to that of Nietzsche: one a Romantic, idealist and Christian, the other Dionysian, anti-idealist and anti-Christian. Still, there is a very meaningful and educative dialogue to be found between Schelling and Nietzsche on the topics of reason, freedom and religion. Both of them start their philosophy with a similar critique of the Western tradition, which to them is overly dualist, rationalist and anti-organic (metaphysically, ethically, religiously, politically). In response, they hope to inculcate a more lively view of reality in which a new understanding of freedom takes center stage. This freedom can be revealed and strengthened through a proper approach to religion, one that neither disconnects from nor subordinates religion to reason. Religion is the dialogical other to reason, one that refreshes and animates our attempts to navigate the world autonomously. In doing so, Schelling and Nietzsche open up new avenues of thinking about (the relationship between) freedom, reason and religion.

# Inscriptions of Roman Britain

Sources for Roman Britain with explanatory notes.

# Rainfall in Urban Areas

International Water Assn Understanding rainfall processes and their distribution in time and space, as well as their fluctuations is crucial to

most hydrological analyses, thereby including hydrology of urban areas characterised by a high sensitivity to intense rainfall events. Recent improvements in monitoring techniques and data collection, such as the development and the use of weather radars have improved the capabilities of the design of urban drainage systems, also allowing their real-time management during major storm events. Moreover, the development of analysis and modelling tools opened new frontiers towards the understanding of precipitation processes, also generating significant benefit for operational urban hydrology. Following the tradition of the previous workshops organised regularly since 1989, the millennium workshop held in Pontresina, Switzerland, outlined possible ways of bridging scientific achievements and practical applications for design and forecasting purposes. A number of interesting papers derived from the contributions presented at the workshop are collected in this special issue. New measurement techniques together with the consolidation of those already existing, new insights in the structure and properties of storms, investigations on statistical predictability under the constraint of climatic fluctuations, application oriented basic research and operational urban hydrology issues are the main content of this special edition. Not only do they suggest solutions, but they also inspire new questions and shed light on the expectations from the research of this new millennium.

## Machine Language for Beginners

## Machine Language Programming for BASIC Language Programmers

Compute! Publications **Introduces the Beginner to Machine Code. Includes Utilities, An Assembler & a Disassembler**

## Immunotoxicity Testing

## Methods and Protocols

Humana **Recent critical advances in the field of immunotoxicology have led to incredible contributions to basic science, including crucial improvements in human risk assessment. In Immunotoxicity Testing: Methods and Protocols, expert researchers explore these changes, providing the reader with current, lab-ready procedures, along with the corresponding background information that is necessary to identify effective testing approaches for chemicals and drugs. Among the first volumes to meld consideration of immunotoxicity testing strategies with a comprehensive presentation of detailed laboratory protocols, chapters include a**

description of the evolution of immunotoxicity testing, a look at the importance of immunotoxicity testing for health risk reduction, and ideas concerning the future of the field. Composed in the highly successful **Methods in Molecular Biology**(tm) series format, most chapters contain a brief introduction, step-by-step methods, a list of necessary materials, and a Notes section which shares tips from the experts on troubleshooting and avoiding known pitfalls. Comprehensive and innovative, **Immunotoxicity Testing: Methods and Protocols** is a critical, one-stop reference resource for the most important and commonly used laboratory protocols in immunotoxicology.

## Dictionary of British Arms

This book is designed to enable those with a working knowledge of heraldry to identify medieval British coats of arms. An Ordinary, in this context, is a collection of arms arranged alphabetically according to their designs, as opposed to an armory which is arranged alphabetically by surname. Listed in this volume are entries from Anchor to Bend. This present work is the first of a four-volume Ordinary covering the period before 1530, which is the point at which heraldic visitations for the purpose of collecting information about arms began, and which marks the appearance of the modern heraldic system. Its publication will mean that the wide range of people interested in medieval arms - historians, antiquaries, archaeologists, genealogist and those dealing in and collecting medieval objects - will be able to identify accurately the arms that occur in a medieval context. Arms were widely displayed in the middle ages and can be found not only on tombs, monuments and seals, but also on textiles, manuscripts, metalwork, glass, wall paintings and other medieval artefacts. The index acts as an armory, and allows the reader to discover the blazons of arms recorded for particular surnames in the medieval period. It will thus be a key tool for anyone researching medieval families and their history, and represents a remarkable achievement on the part of the many experts who have contributed to it.

## OECD Guidelines for the Testing of Chemicals, Section 4 Test No. 456: H295R Steroidogenesis Assay

OECD Publishing This Test Guideline describes an in vitro screen for chemical effects on steroidogenesis, specifically the production of 17 $\beta$ -estradiol (E2) and testosterone (T). The human H295R adreno-carcinoma cell line, used for the assay, expresses genes that ...