

A Calculated Life

Nations around the world are experiencing a spectacular increase in longevity. Society as a whole is being challenged by issues arising from this revolution in longevity. Although the specter of the loneliness and existential suffering of older citizens is such that some people under the age of 65 find it difficult to conceive of a long-term future, persons over 85 have proven that aging does not necessarily preclude a healthy and productive life. Extraordinary progress in both curative and preventive medicine justifies optimism about the quality of life and state of well-being that can be enjoyed even in great old age. We should look to professionals in diverse fields to develop creative solutions to the inevitable issues that will arise with aging. Governments must prepare for the future health of their citizens by making long-term investments to educate all sectors of society in the value of good nutrition, exercise, and lifestyles that enhance well-being throughout life. Also, governments should realize that the main cause of health care expenditure is serious illness which occurs in persons of all ages, and not predominantly in older people. Early detection can help save lives, as well. Health and longevity of life will ultimately end as a political issue. What is needed is long-term government investments necessary for a viable health policy. The question arises: will world leaders be able to commit to such a policy? Two major socioeconomic phenomena may have a regulating effect on this issue. The first is the emergence of pressure groups that have come into being in response to a particular health issue, such as AIDS. The second is the emergence of ethics committees in developed nations that deal solely with health issues. As synthetic biology transforms living matter into a medium for making, what is the role of

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design and its associated values? Synthetic biology manipulates the stuff of life. For synthetic biologists, living matter is programmable material. In search of carbon-neutral fuels, sustainable manufacturing techniques, and innovative drugs, these researchers aim to redesign existing organisms and even construct completely novel biological entities. Some synthetic biologists see themselves as designers, inventing new products and applications. But if biology is viewed as a malleable, engineerable, designable medium, what is the role of design and how will its values apply? In this book, synthetic biologists, artists, designers, and social scientists investigate synthetic biology and design. After chapters that introduce the science and set the terms of the discussion, the book follows six boundary-crossing collaborations between artists and designers and synthetic biologists from around the world, helping us understand what it might mean to 'design nature.' These collaborations have resulted in biological computers that calculate form; speculative packaging that builds its own contents; algae that feeds on circuit boards; and a sampling of human cheeses. They raise intriguing questions about the scientific process, the delegation of creativity, our relationship to designed matter, and, the importance of critical engagement. Should these projects be considered art, design, synthetic biology, or something else altogether? Synthetic biology is driven by its potential; some of these projects are fictions, beyond the current capabilities of the technology. Yet even as fictions, they help illuminate, question, and even shape the future of the field.

This collection, spanning nearly a decade of artistic activity, features selections of writings that trace the intellectual influences and track the development of one of the more formidable and productive minds in the contemporary art world. The writings comprise Enrique Martínez

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Celaya's public lectures; essays; interviews; correspondence with artists, critics, and scholars; artist statements; blog posts; and journal entries. These texts were written during Martínez Celaya's appointment as Visiting Presidential Professor at the University of Nebraska; Roth Distinguished Visiting Scholar at Dartmouth College; and, most recently, as the first Provost Professor of Humanities and Arts at the University of Southern California. Marked by Martínez Celaya's encyclopedic curiosity and considerable knowledge about the world, these writings and interviews explore the role of art in life, evaluate texts by other modern and contemporary artists and thinkers, and reveal the artist's deep engagement with artistic, philosophical, and literary lines of inquiry.

Set in the world of Anne Charnock's novel *A Calculated Life* - shortlisted for the Philip K. Dick and Kitschies Golden Tentacle Awards - "The Enclave" reveals the harsh reality of life at the bottom of the heap in late twenty-first century Britain. Advances in genetic engineering have created a population free of addictive behaviour. Violent crime is rare. But out in the enclaves it's survival of the fittest for Lexie - embroiled in a recycling clan and judged unfit for cognitive implants - and Caleb, a young climate migrant working as an illegal, who is eager to prosper and one day find his father. *The Enclave* is a standalone novella. A must-read for any fan of the acclaimed novel *A Calculated Life*. "Charnock's dystopia is actually believable." - *Strange Horizons*. "What Charnock has in common with Philip K. Dick is the ability to write unease." - Adam Roberts.

List of members in v. 7-15, 17, 19-20.

List of members in each volume.

This book includes a collection of articles that present recent developments in the fields of

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optimization and dynamic game theory, economic dynamics, dynamic theory of the firm, and population dynamics and non standard applications of optimal control theory. The authors of the articles are well respected authorities in their fields and are known for their high quality research in the fields of optimization and economic dynamics.

Provides the tools needed to analyze and solve acid drainage problems Featuring contributions from leading experts in science and engineering, this book explores the complex biogeochemistry of acid mine drainage, rock drainage, and acid sulfate soils. It describes how to predict, prevent, and remediate the environmental impact of acid drainage and the oxidation of sulfides, offering the latest sampling and analytical methods. Moreover, readers will discover new approaches for recovering valuable resources from acid mine drainage, including bioleaching. Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils reviews the most current findings in the field, offering new insights into the underlying causes as well as new tools to minimize the harm of acid drainage: Part I: Causes of Acid Mine Drainage, Rock Drainage and Sulfate Soils focuses on the biogeochemistry of acid drainage in different environments. Part II: Assessment of Acid Mine Drainage, Rock Drainage and Sulfate Soils covers stream characterization, aquatic and biological sampling, evaluation of aquatic resources, and some unusual aspects of sulfide oxidation. Part III: Prediction and Prevention of Acid Drainage discusses acid-base accounting, kinetic testing, block modeling, petrology, and mineralogy studies. It also explains relevant policy and regulations. Part IV: Remediation of Acid Drainage, Rock Drainage and Sulfate Soils examines both passive and active cleanup methods to remediate acid drainage. Case studies from a variety of geologic settings highlight various approaches to analyzing and solving acid drainage problems. Replete with helpful

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appendices and an extensive list of web resources, Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils is recommended for mining engineers and scientists, regulatory officials, environmental scientists, land developers, and students.

From the Arthur C. Clarke Award-winning author, a dystopian novel of oppression set in the climate-ravaged Europe of *A Calculated Life*, a finalist for the Kitschies award and Philip K. Dick Award. Late in the twenty-first century, drought and wildfires prompt an exodus from southern Europe. When twelve-year-old Caleb is separated from his mother during their trek north, he soon falls prey to traffickers. Enslaved in an enclave outside Manchester, the resourceful and determined Caleb never loses hope of bettering himself. After Caleb is befriended by a fellow victim of trafficking, another road opens. Hiding in the woodlands by day, guided by the stars at night, he begins a new journey--to escape to a better life, to meet someone he can trust, and to find his family. For Caleb, only one thing is certain: making his way in the world will be far more difficult than his mother imagined. Told through multiple voices and set against the backdrop of a haunting and frighteningly believable future, *Bridge 108* charts the passage of a young boy into adulthood amid oppressive circumstances that are increasingly relevant to our present day.

Providing nursing students with words of wisdom and advice from real-life student nurses, *Calculation Skills for Nurses* enables you to calculate drug dosages with ease, boosting your confidence and competence in this core area of nursing practice. The book takes away the fear of calculations, making it approachable, easy and fun, and ties in with the NMC standards for pre-registration education and the Essential Skills Clusters. It is filled with examples and questions based on real life nursing and healthcare situations and includes key information

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displayed on the inside back cover for quick look-up on clinical placements.

Providing a unified introduction to the underlying ideas of the Psychology of Security, Emergency and Risk (PSER), this book highlights the usefulness of a basic psychological knowledge for all those working in this field and summarizes the main dynamic processes associated with the helping relationship: from the neurological pathway of the emotions to the entirely virtual functions of the real Ego, all of these estimable by the oneiric test contained in the appendix. The authors include, in each of the dedicated chapters, the current theories and worked examples to reinforce every argument: from communications rules to the knowledge of terrorism's cultural background, in its psychological, biological and environmental component. The last important goal at the end of each chapter is to offer the reader, by confronting their own experiences with analysed realities, the possibility to discover the sense of one's personal identity.

Big business and state institutions are thriving late in the 21st century thanks to a compliant, stratified and segregated workforce. Hyper-intelligent professionals live in affluence within the metropolis while menials live out in the subsidized, but spartan, enclaves. There are upsides for everyone. Advances in genetic engineering have freed the population from addictive tendencies. Violent crime is a rarity. Mayhew McCline, a corporation that detects global trends, recruits a young woman, Jayna, who instantly becomes the firm's star performer. No one seems to be jealous. After all, she guarantees they all make their bonuses. Despite her flawless track record, Jayna is feeling twitchy. She knows she's making stupid mistakes. But no one has noticed, yet. Working on a hunch that she's too sheltered from real-world unpredictability, she embarks on an experiment to disrupt her proscribed daily routine.

