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The six years that have passed since the publication of the first edition have brought significant advances in both biofilm research and biofilm engineering, which have matured to the extent that biofilm-based technologies are now being designed and implemented. As a result, many chapters have been updated and expanded with the addition of sections reflecting changes in the status quo in biofilm research and engineering. Emphasizing process analysis, engineering systems, biofilm applications, and mathematical modeling, **Fundamentals of Biofilm Research, Second Edition** provides the tools to unify and advance biofilm research as a whole. Retaining the goals of the first edition, this second edition serves as: A compendium of knowledge about biofilms and biofilm processes A set of instructions for designing and conducting biofilm experiments A set of instructions for making and using various tools useful in biofilm research A set of computational procedures useful in interpreting results of biofilm research A set of instructions for using the model of stratified biofilms for data interpretation, analysis, and biofilm activity prediction Over a period of several centuries, the academic study of risk has evolved as a distinct body of thought, which continues to influence conceptual developments in fields such as economics, management, politics and sociology. However, few scholarly works have given a chronological account of cultural and intellectual trends relating to the understanding and analysis of risks. *Risk: A Study of its Origins, History and Politics* aims to fill this gap by providing a detailed study of key turning points in the evolution of society's understanding of risk. Using a wide range of primary and secondary materials, Matthias Beck and Beth Kewell map the political origins and moral reach of some of the most influential ideas associated with risk and uncertainty at specific periods of time. The historical focus of the book makes it an excellent introduction for readers who wish to go beyond specific risk management techniques and their theoretical underpinnings, to gain an understanding of the history and politics of risk. *A Study Guide for Zbigniew Herbert's "Why The Classics,"* excerpted from Gale's acclaimed *Poetry for Students*. This concise study guide includes plot summary; character analysis; author biography; study questions; historical context; suggestions for further reading; and much more. For any literature project, trust *Poetry for Students* for all of your research needs. The six years that have passed since the publication of the first edition have brought significant advances in both biofilm research and biofilm engineering, which have matured to the extent that biofilm-based technologies are now being designed and implemented. As a result, many chapters have been updated and expanded with the addition of sections This book highlights a range of new approaches and concepts in the field of software engineering. Based on systematic methods, graphical and formal models, the approaches are designed for solving practical problems encountered in actual software development. The book is divided into 13 chapters, which address core aspects such as security, performance and quality measurement. Chiefly intended to stimulate new research by presenting real problems faced by the industry, and to facilitate software development by applying precisely defined, validated and efficient models and

methods, the book offers a valuable guide – for researchers and industry practitioners at small, medium and large companies alike. A Study Guide for Zbigniew Herbert's "Why The Classics," excerpted from Gale's acclaimed Poetry for Students. This concise study guide includes plot summary; character analysis; author biography; study questions; historical context; suggestions for further reading; and much more. For any literature project, trust Poetry for Students for all of your research needs. The six years that have passed since the publication of the first edition have brought significant advances in both biofilm research and biofilm engineering, which have matured to the extent that biofilm-based technologies are now being designed and implemented. As a result, many chapters have been updated and expanded with the addition of sections reflecting changes in the status quo in biofilm research and engineering. Emphasizing process analysis, engineering systems, biofilm applications, and mathematical modeling, *Fundamentals of Biofilm Research, Second Edition* provides the tools to unify and advance biofilm research as a whole. Retaining the goals of the first edition, this second edition serves as:

- A compendium of knowledge about biofilms and biofilm processes
- A set of instructions for designing and conducting biofilm experiments
- A set of instructions for making and using various tools useful in biofilm research
- A set of computational procedures useful in interpreting results of biofilm research
- A set of instructions for using the model of stratified biofilms for data interpretation, analysis, and biofilm activity prediction

One of the most significant transformations of the Roman world between the fourth and seventh centuries C.E. was the integration and impact of barbarian peoples into the social, cultural, religious and political Mediterranean world. This was the theme of the 2005 Shifting Frontiers in Late Antiquity Conference at the University of Illinois at Urbana-Champaign. The selection of conferences papers published here remind us that the transformation of the Roman world took place in a Roman context and that Romanitas always was the touchstone against which social, intellectual, and political developments were measured. There is a need to measur ...

This Dictionary presents a broad range of topics relevant in present-day global bioethics. With more than 500 entries, this dictionary covers organizations working in the field of global bioethics, international documents concerning bioethics, personalities that have played a role in the development of global bioethics, as well as specific topics in the field. The book is not only useful for students and professionals in global health activities, but can also serve as a basic tool that explains relevant ethical notions and terms. The dictionary furthers the ideals of cosmopolitanism: solidarity, equality, respect for difference and concern with what human beings- and specifically patients - have in common, regardless of their backgrounds, hometowns, religions, gender, etc. Global problems such as pandemic diseases, disasters, lack of care and medication, homelessness and displacement call for global responses. This book demonstrates that a moral vision of global health is necessary and it helps to quickly understand the basic ideas of global bioethics. This book presents the results of research into one of the most complex and difficult areas - research into thinking and understanding. The research was carried out at the newly founded Queen Jadwiga Research Institute of Understanding and is focused on the problem of visual understanding and visual thinking. The authors believe this is the first book to attempt to investigate the complexity of visual thinking problems in the context of building the thinking machine. This is the third book presenting selected results of research on the further development of the shape understanding system (SUS) carried out by authors in the newly founded Queen Jadwiga Research Institute of Understanding. In this book the new term Machine Understanding is introduced referring to a new area of research aiming to investigate the possibility of building machines with the ability to understand. It is presented that SUS needs to some extent mimic human understanding and for this reason machines are evaluated according to the rules applied for the evaluation of human understanding. The book shows how to formulate problems and how it can be tested if the machine is able to solve these problems. In this book, the authors highlight recent findings that hold the potential to improve software products or development processes; in addition, they help readers understand new concepts and technologies, and to see what it takes to migrate from old to new platforms. Some of the authors have spent most of their careers in industry, working at the frontiers of practice-based innovation, and are at the same time prominent researchers who have made significant academic contributions. Others work together with industry to test, in industrial settings, the methods they've developed in the lab. The choice of subject and authors represent the key elements of this book. Its respective chapters cover a wide range of topics, from cloud computing to agile development, applications of data science methods, re-engineering of aging applications into modern ones, and business and requirements engineering. Taken together, they offer a valuable asset for practitioners and researchers alike. When this book was first published in 1960 *The New York Times* commented: "[Mr.] Brzezinski...is uniquely qualified to sift the scattered and often seemingly contradictory data on this subject...the volume is marked by unusual insight, richness of information, and stimulating thought." Mr. Brzezinski who is on leave from his post as Professor and Director of the Research Institute on Communist Affairs, Columbia University serving on State Department's Policy Planning Council, has revised and updated his important study wherever necessary and added three new chapters on recent developments. He gives particular attention to the Sino-Soviet dispute. Beginning in 1954, Apr. issue lists studies in progress; Oct. issue, completed studies. Zbigniew Brzezinski's multifaceted career dealing with U.S. security and foreign policy has led him from the halls of academia to multiple terms in public service, including a stint as President Jimmy Carter's National Security Advisor from 1977 to 1981. He is a renowned policy analyst and author who frequently appears as a commentator on popular talk shows, and his strategic vision continues to carry a great deal of gravitas. In Zbig, Charles Gati has enlisted many of the top foreign policy players of the past thirty years to reflect on and analyze Brzezinski and his work. A senior scholar in Eastern European and Russian studies, Gati observed firsthand much of the history and politics surrounding Brzezinski's career. His vibrant introduction and concluding interview with Brzezinski frame this critical assessment of a major statesman's accomplishments. Contributors: Justin Vaïsse, David C. Engerman, Mark Kramer, David J. Rothkopf, Warren I. Cohen and Nancy Bernkopf Tucker, Robert A. Pastor, William B. Quandt, Robert Hunter, James Thomson, Patrick Vaughan, Marin Strmecki, James Mann, David Ignatius, Adam Garfinkle, Stephen F. Szabo, Francis Fukuyama, Charles Gati "A highly readable volume of reflections on the legendary Cold Warrior by academics, journalists and Brzezinski's colleagues."—*New Eastern Europe* "There is no sharper, clearer, more strategic thinker alive today than Zbig Brzezinski. This fascinating book brings that label to life, adding color, depth, personality and values to his incisive mind. It is history, biography, and very nearly a how-to book on thinking strategically."—Jessica Tuchman Mathews, Carnegie Endowment for International Peace "Zbig is both a long overdue tribute and a comprehensive, balanced, and much-needed study of Dr. Brzezinski's extraordinary career."—Madeleine Albright, former U. S. Secretary of State Charles Gati is a senior research professor of European and Eurasian Studies at the Johns Hopkins University Paul H. Nitze School of Advanced International Studies (SAIS). His books include *Failed Illusions: Moscow, Washington, Budapest, and the 1956 Hungarian Revolt* and *The Bloc That Failed: Soviet–East European Relations in Transition*. The mighty and majestic European bison is the relictual embodiment of the wildness of prehistoric Europe. Tragically, the millennia since that time have seen so many species driven to extinction by human impacts, and the European bison has only narrowly avoided the same fate. Today, the species represents the symbolic sentinel of successful conservation actions in a world in which such achievements remain few and far between. From an early stage in the restitution of the European bison, husband-and-wife team Ma?gorzata Krasi?ska and Zbigniew A. Krasi?ski have been participating in relevant management initiatives and researching all facets of the bison, from its morphology and diet, to its movements, social life and reproduction, and the conservation management actions that have been taken to save it. Now they have summarised this wealth of knowledge on the species, giving rise to a publication ideal for students, professional biologists and conservationists, but also for all nature enthusiasts. This new edition of the monograph offers extensively updated content taking into account research carried out on the European bison in the last few years. Also featured, a new chapter devoted to knowledge of the genetics of the species drawn up by Ma?gorzata Tokarska of the Bia?owie?a-based Mammal Research Institute PAS. The science of crash reconstruction enables engineers to determine the most probable scenario for how and why traffic collisions occur. Ongoing research has continually enhanced crash reconstructionists' knowledge of the application of physical laws in this field. *Crash Reconstruction Research: 20 Years of Progress (1988-2007)* features 47 papers that have presented significant steps forward, focusing on the following areas within the field of crash reconstruction that have experienced major advances: Planar Impact Mechanics Stiffness Modeling Crash Pulse Analysis Structural Restitution Lateral Deformation and Override/Underride BEV v. Delta-V Rear and Side Impacts Pole Impacts Uncertainty Analysis Pedestrian Crashes Braking Performance A comprehensive guide for students and practitioners to parallel computing models, processes, metrics, and implementation in MPI and OpenMP.