[Book] Section 1 Reinforcement Cell Structure Answer Key

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Molecular Biology of the Cell - Bruce Alberts - 2004

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Essential Cell Biology - Bruce Alberts - 2013-10-15

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual
discussions. The user-friendly science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students’ needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/.

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**Corrosion of Reinforcement in Concrete**
- M Raupach - 2014-01-23

Given the widespread use of reinforced concrete in infrastructure, understanding the corrosion of this material is of major importance. As a result there has been a wealth of research into catalysts, inhibitors and effective means of monitoring the rate of corrosion. Corrosion of reinforcement in concrete: mechanisms, monitoring, inhibitors and rehabilitation techniques summarises some of the most significant research and its implications.

The book begins by reviewing findings from various experiments designed to test the corrosion rate of metals induced by a range of factors. Later chapters discuss techniques for monitoring and
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**Blast Resistant Structures** - 1986

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**Glencoe Science: Animal diversity** - McGraw-Hill Staff - 2001-06

**Glencoe Science: Animal diversity** - McGraw-Hill Staff - 2001-06

**Learning About DNA, Grades 4 - 8** - Debbie Routh - 2008-09-03
Connect students in grades 4 and up with science using Learning about DNA. This 48-page book covers topics such as DNA basics, microscopes, the organization of the cell, mitosis and meiosis, and dominant and recessive traits. It reinforces lessons supporting the use of scientific process skills to observe, analyze, debate, and report, and each principle is supplemented by worksheets, puzzles, a research project, a unit test, and a vocabulary list. The book also includes an answer key.

**Cellular Structures—Advances in Research and Application: 2013 Edition** - - 2013-06-21
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**Cellular Structures—Advances in Research and Application: 2013 Edition**

Cellular Structures—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Intracellular Space. The editors have built Cellular Structures—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews™. You can expect the information about Intracellular Space in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Cellular Structures—Advances in Research and Application: 2013 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us.
Radial Basis Function Networks 1 - Robert J. Howlett - 2001-03-27

The Radial Basis Function (RBF) neural network has gained in popularity over recent years because of its rapid training and its desirable properties in classification and functional approximation applications. RBF network research has focused on enhanced training algorithms and variations on the basic architecture to improve the performance of RBF network is proving to be a valuable tool in a diverse range of application areas, for example, robotics, biomedical engineering, and the financial sector. The two volumes provide a comprehensive survey of the latest developments in this area. Volume 1 covers advances in training algorithms, variations on the architecture and function of the basis neurons, and hybrid paradigms, for example RBF learning using genetic algorithms. Both volumes will prove extremely useful to practitioners in the field, engineers, researchers and technically accomplished managers.
the basic architecture to improve the performance of the network. In addition, the RBF network is proving to be a valuable tool in a diverse range of application areas, for example, robotics, biomedical engineering, and the financial sector. The two volumes provide a comprehensive survey of the latest developments in this area. Volume 1 covers advances in training algorithms, variations on the architecture and function of the basis neurons, and hybrid paradigms, for example RBF learning using genetic algorithms. Both volumes will prove extremely useful to practitioners in the field, engineers, researchers and technically accomplished managers.

Artificial Neural Networks - ICANN 2010 - Konstantinos Diamantaras - 2010-09-13

This volume is part of the three-volume proceedings of the 20 International Conference on Artificial Neural Networks (ICANN 2010) that was held in Thessaloniki, Greece during September 15-18, 2010.

ICANN is an annual meeting sponsored by the European Neural Network Society (ENNS) in cooperation with the International Neural Network Society (INNS) and the Japanese Neural Network Society (JNNS). This series of conferences has been held annually since 1991 in Europe, covering the field of neurocomputing, learning systems and other related areas. As in the past 19 events, ICANN 2010 provided a distinguished, lively and interdisciplinary discussion forum for researchers and scientists from around the globe. It offered a good chance to discuss the latest advances of research and also all the developments and applications in the area of Artificial Neural Networks (ANNs). ANNs provide an information processing structure inspired by biological nervous systems and they consist of a large number of highly interconnected processing elements (neurons). Each neuron is a simple processor with a limited computing capacity.
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within complex mechanical environments such as in the cardiovascular system. In addition, the book provides detailed coverage of inflammation and cellular immune response as a useful model for how engineering concepts and tools may be effectively applied to complex systems in biomedicine. - Accessible to biologists looking for new ways to model their results and engineers interested in biomedical applications -Useful to researchers in biomaterials, inflammation, and vascular biology -Excellent resource for graduate students as a textbook in cell & tissue engineering or cell mechanics courses.

**Principles of Cellular Engineering** - Michael R. King - 2011-04-28
This comprehensive work discusses novel biomolecular surfaces that have been engineered to either control or measure cell function at the atomic, molecular, and cellular levels. Each chapter presents real results, concepts, and expert perspectives of how cells interact with biomolecular surfaces, with particular emphasis on interactions.
Structures (ACI)
interact with biomolecular surfaces, with particular emphasis on interactions within complex mechanical environments such as in the cardiovascular system. In addition, the book provides detailed coverage of inflammation and cellular immune response as a useful model for how engineering concepts and tools may be effectively applied to complex systems in biomedicine. Accessible to biologists looking for new ways to model their results and engineers interested in biomedical applications. Useful to researchers in biomaterials, inflammation, and vascular biology. Excellent resource for graduate students as a textbook in cell & tissue engineering or cell mechanics courses.

Building Code
Requirements for Masonry Structures (ACI 530-05/ASCE 5-05/TMS 402-05) - 2005-01-01

Recent Advances in Learning Automata - Alireza Rezvanian - 2018-01-17
This book collects recent theoretical advances and concrete applications of learning automata (LAs) in various areas of computer science, presenting a broad treatment of the computer science field in a survey style. Learning automata (LAs) have proven to be effective decision-making agents, especially within unknown stochastic environments. The book starts with a brief explanation of LAs and their baseline variations. It subsequently introduces readers to a number of recently developed, complex structures used to supplement LAs, and describes their steady-state behaviors. These complex structures have been

530-05/ASCE 5-05/TMS 402-05) - 2005-01-01

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In turn, the next part of the book highlights a range of LA-based applications in diverse computer science domains, from wireless sensor networks, to peer-to-peer networks, and finally to Petri nets. The book accompanies the reader on a comprehensive journey, starting from basic concepts, continuing to recent theoretical findings, and ending in the applications of LAs in problems from numerous research domains. As such, the book offers a valuable resource for all computer engineers, scientists, and students, especially those whose work involves the reinforcement learning and artificial intelligence domains.

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**Plant Cell Walls** - Peter Albersheim - 2010-04-15

Plant cell walls are complex, dynamic cellular structures essential for plant growth, development, physiology and adaptation. Plant Cell Walls provides an in depth and diverse view of the microanatomy, biosynthesis and molecular physiology of these cellular structures, both in the life of the plant and in their use for bioproducts and biofuels. Plant Cell Walls is a textbook for upper-level students, as well as a professional-level reference book. Over 400 drawings, micrographs, and photographs provide visual insight into the latest research, as well as the uses of plant cell walls in everyday life, and their applications in biotechnology. Illustrated panels concisely review research methods and tools; a list of key terms is given at the end of each chapter; and extensive references organized by concept headings provide readers with guidance for entry into plant cell wall literature. Cell wall material is of considerable importance to the biofuel, food, timber, and pulp and paper industries as well as being a major focus of research in plant growth and sustainability that are of central interest in present day agriculture and biotechnology. The production and use of plants for biofuel and bioproducts in a time of need for responsible global carbon use requires a deep understanding of the fundamental biology of plants.
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**Artificial Neural Networks** - ICANN 2009 - Cesare
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Artificial Neural Networks - ICANN 2009 - Cesare Alippi - 2009-09-03
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Composite Technologies for 2020 - L Ye - 2004-06-01
The Asian-Australasian Association for Composite Materials (AACM) has been playing a leading role in the field of composite science and technology since its inception in 1997. AACM aims to encourage the interchange of knowledge in all aspects of composite materials both in the scientific and engineering communities. Following the success of the first three ACCM conferences ACCM 4 was held in Sydney, Australia, in July 2004. Composite
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Structural Engineering Compendium I - Journal Editors - 2002-02-20

This compendium is made up of a selection of the best and most representative papers from a group of Elsevier's structural engineering journals. Selections were made by the journal's editorial teams. The papers appeared in the following journals during 2000: Journal of Constructional Steel Research

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Bjorhovde Thin Walled Structures J. Loughlan, K.P. Chong Engineering Structures P.L. Gould Computers and Structures K.J. Bathe, B.H.V. Topping Construction and Building Materials M.C. Forde Journal of Wind Engineering & Industrial Aredynamics N.P. Jones Marine Structures P.A. Frieze, A. Mansour, T. Yao Each paper appears in the same format as it was published in the journal; citations should be made using the original journal publication details. It is intended that this compendium will be the first in a series of such collections. A compendium has also been published in the area of geotechnical engineering.

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3D Fibre Reinforced Polymer Composites - L. Tong - 2002-11-20
Fibre reinforced polymer (FRP) composites are used in almost every type of advanced engineering structure, with their usage ranging from
and stitching as well as by z-spacecraft through to boats, ships and offshore platforms and to automobiles, sports goods, chemical processing equipment and civil infrastructure such as bridges and buildings. The usage of FRP composites continues to grow at an impressive rate as these materials are used more in their existing markets and become established in relatively new markets such as biomedical devices and civil structures. A key factor driving the increased applications of composites over the recent years is the development of new advanced forms of FRP materials. This includes developments in high performance resin systems and new styles of reinforcement, such as carbon nanotubes and nanoparticles. This book provides an up-to-date account of the fabrication, mechanical properties, delamination resistance, impact tolerance and applications of 3D FRP composites. The book focuses on 3D composites made using the textile technologies of weaving, braiding, knitting and pinning.

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**Computational Techniques for Materials, Composites and Composite Structures** - B. H. V. Topping - 2000
Contains a selection of papers that were presented at The Fifth International Conference on Computational Structures Technology and The Second International Conference on Engineering Computational Technology, which were held in Leuven, Belgium from 6-8 September 2000.

With tremendous growth over the last five years, mechanochemistry has become one of the most important topics in current polymer science research. With a particular focus on polymers and soft materials, Mechanochemistry in Materials looks at the subject from the application of macroscopic forces to solid systems of macroscopic dimensions. The book has been divided according to length scale covering both experimental and theoretical considerations simultaneously. The first section of the book focuses on inspiration from nature, exploring and explaining multiple biological phenomena. The second section discusses molecular
with natural systems and the theoretical understanding of the transduction of mechanical force and its impact on covalent bonds cleavage and formation. The final section considers the implementation of these phenomena at the mesoscale and discusses the use of supramolecular/reversible aspects with similarities to biological systems. The book provides a unique comparison with natural systems and contains all the important achievements in the area from the last decade. Appealing to a broad range of materials scientists, working in industry and academia, this well-presented and comprehensive title will be essential reading for researchers.

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**Plant Pathology** - U. S. Singh - 2017-12-14  
Molecular Methods in Plant Pathology covers methods in phytopathology at the molecular level, including PCR techniques, electron microscopy, tissue culturing, and the cloning of disease-resistant genes. Phytopathologists, botanists, horticulturists, and anyone working in agriculture will find this a useful reference on biophysical, biochemical, biomolecular, and biotechnological methods.

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**Understanding Genetics** - Genetic Alliance - 2009  
The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both
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Cracking the SAT Subject Test in Biology E/M - The Princeton Review - 2019-12-10
SAT Subject Test Biology E/M Prep, 17th Edition provides students with step-by-step strategies for cracking classification, five-choice, and laboratory five-choice questions; comprehensive review of all essential content, including genetics, cellular biology, and molecular biology; review quizzes throughout; detailed answer keys; 2 full-length practice tests; and much more. This 17th edition includes a new quick-look Study Guide, expanded answer explanations, and access to a new Online Student Tools section with additional college admissions help and info.

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Gaseous Radiation Detectors - Fabio Sauli - 2014-06-12
Describes the fundamentals and applications of gaseous radiation detection, ideal for researchers and experimentalists in nuclear and particle physics.

Fundamentals in Oncology
- Connie Henke Yarbro - 1997

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Lignin in Polymer Composites - Omar Faruk - 2015-10-24
Lignin in Polymer Composites presents the latest information on lignin, a natural polymer derived from renewable resources that has great potential as a reinforcement material in composites because it is non-toxic, inexpensive, available in large amounts, and is starting to be deployed in various materials applications due to its advantages over more traditional oil-based materials. This book reviews the state-of-the-art on the topic and their applications to composites, including thermoplastic, thermosets,
composites, including nanocomposites, and lignin-based carbon fiber composites. In addition, the book covers critical assessments on the economics of lignin, including a cost-performance analysis that discusses its strengths and weaknesses as a reinforcement material. Finally, the huge potential applications of lignin in industry are explored with respect to its low cost, recyclable properties, and fully biodegradable composites, and the way they apply to the automotive, construction, and packaging industries. Reviews the state-of-the-art on the topic and their applications to composites, including thermoplastic, thermosets, rubber, foams, bioplastics, nanocomposites, and lignin-based carbon fiber composites.

Presents the essential processing and properties information for engineers and materials scientists, enabling the use of lignin in composites. Provides critical insight into the applications and future trends of lignin-based advantages, shortcomings, and economics. Includes a thorough coverage of extraction, modification, processing, and applications of the material.

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Provides critical insight into
the applications and future
trends of lignin-based
composites, including
advantages, shortcomings,
and economics Includes a
thorough coverage of
extraction, modification,
processing, and applications

Handbook of Basal Ganglia
Structure and Function
- Heinz Steiner - 2010-03-17
The Basal Ganglia comprise a
group of forebrain nuclei that
are interconnected with the
cerebral cortex, thalamus and
brainstem. Basal ganglia
circuits are involved in
various functions, including
motor control and learning,
sensorimotor integration,
reward and cognition. The
importance of these nuclei for
normal brain function and
behavior is emphasized by the
numerous and diverse
disorders associated with
basal ganglia dysfunction,
including Parkinson’s disease,
Tourette’s syndrome,
Huntington’s disease,
obsessive-compulsive
disorder, dystonia, and
psychostimulant addiction.
The Handbook of Basal
Ganglia provides a
comprehensive overview of
the structural and functional
organization of the basal
ganglia, with special emphasis
on the progress achieved over
the last 10-15 years.
Organized in six parts, the
The Basal Ganglia comprise a group of forebrain nuclei that are interconnected with the anatomical organization and provides a review of the evolution of the basal ganglia, followed by detailed accounts of recent advances in anatomy, cellular/molecular, and cellular/physiological mechanisms, and our understanding of the behavioral and clinical aspects of basal ganglia function and dysfunction. Synthesizes widely dispersed information on the behavioral neurobiology of the basal ganglia, including advances in the understanding of anatomy, cell-molecular and cell-physiological mechanisms, and behavioral/clinical aspects of function and dysfunction. Features a truly international cast of the preeminent researchers in the field. Fully explores the clinically relevant impact of the basal ganglia on various psychiatric and neurological diseases.

**Handbook of Basal Ganglia Structure and Function** - Heinz Steiner - 2010-03-17

The Basal Ganglia provide a comprehensive overview of the structural and functional organization of the basal ganglia, with special emphasis on the progress achieved over the last 10-15 years. Organized in six parts, the volume describes the general anatomical organization and provides a review of the evolution of the basal ganglia, followed by detailed accounts of recent advances in anatomy, cellular/molecular, cerebral cortex, thalamus and brainstem. Basal ganglia circuits are involved in various functions, including motor control and learning, sensorimotor integration, reward and cognition. The importance of these nuclei for normal brain function and behavior is emphasized by the numerous and diverse disorders associated with basal ganglia dysfunction, including Parkinson’s disease, Tourette’s syndrome, Huntington’s disease, obsessive-compulsive disorder, dystonia, and psychostimulant addiction.
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The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks.
Reinforcement Learning, offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

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**Concepts of Biology**

Samantha Fowler - 2018-01-07

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

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Cardiac Mechano-Electric Coupling and Arrhythmias - Peter Kohl - 2011-08-25
Cardiac Mechano-Electric Coupling and Arrhythmias offers a thoroughly reviewed compendium written by leading experts in the field on the mechanism and consequences of cardiac mechano-electrical coupling. Its coverage ranges from stretch-activated ion channels to mechanically induced arrhythmias and mechanical interventions for heart rhythm.
Coupling and Arrhythmias grouped into logical sections, from molecular mechanisms, to cell, tissue and whole organ responses, right through to patient-based observations and insight emerging from clinical trials. The information provided carefully highlights both consensus insight and current shortcomings in our understanding of cardiac mechano-electric coupling. The book has been thoroughly revised and expanded since publication of the first edition in 2005, extensively updated to reflect recent developments in the field, and now offers a more balanced view of mechano-electrical interactions in the heart and develops a more clinical focus. Written with the practising cardiologist and junior doctor in mind, it offers interesting new insight for the established physician with an interest in cardiac arrhythmogenesis and heart rhythm management.

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**Prentice Hall Science** - - 1993

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**Adhesives for Wood and Lignocellulosic Materials** - R. N. Kumar - 2019-07-16
The book is a comprehensive treatment of the subject covering a wide range of subjects uniquely available in a single source for the first time. A material science approach has been adopted in dealing with wood adhesion and adhesives. The approach of the authors was to bring out hierarchical cellular and porous characteristics of wood with polymeric cell wall structure, along with the associated non-cell wall extractives, which greatly influence the interaction of wood substrate with polymeric adhesives in a very unique manner not existent in the case of other adherends. Environmental aspects, in particular formaldehyde emission from adhesive bonded wood products, has been included. A significant feature of the book is the inclusion of polymeric matrix materials for wood polymer composites.

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ACI Manual of Concrete Practice - American Concrete Institute - 2007

Protists and Fungi - Gareth Editorial Staff - 2003-07-03
Explores the appearance, characteristics, and behavior of protists and fungi, lifeforms which are neither plants nor animals, using specific examples such as algae, mold, and mushrooms.

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Cells - Anthea Maton - 1997-06

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1st International Conference on 3D Materials Science, 2012 - Marc De Graef - 2016-12-02
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