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Proceedings of the Scientific-Practical Conference "Research and Development - 2016" - K. V. Anisimov - 2017-12-04

This book is open access under a CC BY 4.0 license. It relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016. This event has summarized, analyzed and discussed the interim results, academic outputs and scientific achievements of the Russian Federal Targeted Programme "Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014-2020." It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme: computer science, ecology & environment sciences; energy and energy efficiency; lifesciences; nanoscience & nanotechnology and transport & communications. The chapters report the results of the 3-years research projects supported by the Programme and finalized in 2016.

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In Praise of Protected Lands and Special Places on Martha's Vineyard - Tess Bramhall - 2020-03-30

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Biomaterials Science and Engineering - Joon B. Park - 2012-12-06

This book is written for those who would like to advance their knowledge beyond an introductory level of biomaterials or materials science and engineering. This requires one to understand more fully the science of materials, which is, of course, the foundation of biomaterials. The subject matter of this book may be divided into three parts: (1) fundamental structure-property relationships of man-made materials (Chapters 2-5) and natural biological materials, including biocompatibility (Chapters 6 and 7); (2) metallic, ceramic, and polymeric implant materials (Chapters 8-10); and (3) actual prostheses (Chapters 11 and 12). This manuscript was initially organized at Clemson University as classnotes for an introductory graduate course on biomaterials. Since then it has been revised and corrected many times based on experience with graduate students at Clemson and at Tulane University, where I taught for two years, 1981-1983, before joining the University of Iowa. I would like to thank the many people who helped me to finish this book; my son Yoon Ho, who typed all of the manuscript into the Apple Pie word processor; my former graduate students, M. Ackley Loony, W. Barb, D. N. Bingham, D. R. Clarke, J. P. Davies, M. F. DeMane, B. J. Kelly, K. W. Markgraf, N. N. Salman, W. J. Whatley, and S. o. Young; and my colleagues, Drs. W. Cooke, D. D. Moyle (Clemson G. H. Kenner (University of Utah), F. University), W. C. Van Buskirk (Tulane University), and Y.

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Heart Replacement - Tetsuzo Akutsu - 2012-12-06

The 6th International Symposium on Artificial Heart and Assist Devices met in Tokyo in July 1996, bringing together researchers and specialists from around the world. The symposiums proceedings in this volume comprise papers from nine sessions, each opening with contributions by leading scientists: TAH, heart transplantation, biomaterials, VAS, clinical application, pathophysiology, engineering, new approaches, and special sessions. Of special note is the inclusion, for the first time, of pathophysiology related to clinical use of assist devices. The clinical application section includes a paper by Dr. Michael DeBaakey on the progress made in recent years. With descriptions of the scientific exhibition, accompanied by photographs of all artificial heart devices and systems displayed by major laboratories and manufacturers, Artificial Heart 6 presents the latest information on developments in the field of artificial heart, biomaterials, and heart transplantation.

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The Engineering of Sport - Steve Haake - 2020-12-18

Science and technology has been used more and more in the last few decades to gain advantage over competitors. Quite often, however, the actual science involved is not published because a suitable journal cannot be found. The Engineering of Sport brings together work from a very diverse range of subjects including Engineering, Physics, Materials and Biomechanics. The Engineering of Sport represent work which was represented at the 1st International Conference on the Engineering of Sport held in Sheffield, UK in July 1996. Many sports were represented and the material covered split into nine topics covering aerodynamics, biomechanics, design, dynamics, instrumentation, materials, mechanics, modelling, motion analysis, and vibrations. It should be of interest to specialists in all areas of sports research.

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Surface Engineered Surgical Tools and Medical Devices - Mark J. Jackson - 2007-07-05

Medical devices and surgical tools that contain micro and nanoscale features allow surgeons to perform clinical procedures with greater precision and safety while monitoring physiological and biomechanical parameters more accurately. While surgeons have started to master the use of nanostructured surgical tools in the operating room, this book addresses for the first time the impact and interaction of nanomaterials and nanostructured coatings in a comprehensive manner. Surface Engineered Surgical Tools and Medical Devices presents the latest information and techniques in the emerging field of surface engineered biomedical devices and surgical tools, and analyzes the interaction between nanotechnology, nanomaterials, and tools for surgical applications. Chapters of the book describe developments in coatings for heart valves, stents, hip and knee joints, cardiovascular devices, orthodontic applications, and regenerative materials such as bone substitutes. Chapters are also dedicated to the performance of surgical tools and dental tools and describe how nanostructured surfaces can be created for the purposes of improving cell adhesion between medical devices and the human body.

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Nuclear Power Systems - Water Reactors. The purpose of this conference series is to foster an exchange of ideas about problems and their remedies in water-cooled nuclear power plants of today and the future. Contributions cover problems facing nickel-based alloys, stainless steels, pressure vessel and piping steels, zirconium alloys, and other alloys in water environments of relevance. Components covered include pressure boundary components, reactor vessels and internals, steam generators, fuel cladding, irradiated components, fuel storage containers, and balance of plant components and systems.

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Compressed Air Safety - Health And Safety Executive Staff - 1998

Provides advice to designers, manufacturers, installers, users and others. Contents: Compressor plant; Air receivers; Coolers; Air dryers; Installation of compressors; Main line systems; Portable pneumatic equipment; Pneumatic powered machinery; Actuators; Interlocking methods of circuit design; Inspection and maintenance; Training.

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Master The Japanese Hiragana and Katakana, A Handwriting Practice Workbook - Lang Workbooks - 2020-01-14

Do you want to perfect your handwriting? Do you need a trustworthy resource to teach your small children to trace the Japanese syllabaries? Then this workbook is the perfect companion for your studies. In it, you'll find all the Modern Hiragana and Katakana characters. Your benefits: Clear large letters make it easy to recognize even the most detailed of the Japanese characters. Detailed stroke order instructions provide you with a strong foundation to build your calligraphy skills. Dedicated "Trace and Practice" sections are designed to imprint proper stroke technique unto your muscle memory. Seven carefully selected font variations with an emphasis on varying handwriting styles train your brain to recognize each hiragana and katakana character based on its specific stroke sequence.. As a bonus, at the end of this workbook you'll find extra clean training pages. Feel free to photocopy these pages as needed to extend the lifetime value of your workbook. Special information: Like all Lang Workbooks, this work is also a labor of love. Accordingly, if you are a teacher, a student of Japanese, or homeschooling your children, then you can photocopy any part of this workbook for your own, or your students, personal use. Get ready to impress others and get complemented by them on the quality of your calligraphy!

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Vascular Biochemistry - Peter Zahradka - 2012-12-06

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Master the Hebrew Alphabet - Lang Workbooks - 2019-09-08

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Adobe Photoshop CS6 Book for Digital Photographers - Scott Kelby -

2012-07-12

ARE YOU READY FOR AN AMAZING NEW VERSION OF THE PHOTOSHOP BOOK THAT BREAKS ALL THE RULES? Scott Kelby, Editor and Publisher of Photoshop User magazine—and the best-selling Photoshop author in the world today—once again takes this book to a whole new level as he uncovers more of the latest, most important, and most useful Adobe Photoshop CS6 techniques for digital photographers. This major update to his award-winning, record-breaking book does something for digital photographers that's never been done before—it cuts through the bull and shows you exactly "how to do it." It's not a bunch of theory; it doesn't challenge you to come up with your own settings or figure it out on your own. Instead, Scott shows you step by step the exact techniques used by today's cutting-edge digital photographers, and best of all, he shows you flat-out exactly which settings to use, when to use them, and why. That's why the previous editions of this book are widely used as the official study guides in photography courses at colleges and universities around the world. LEARN HOW THE PROS DO IT Each year, Scott trains thousands of professional photographers on how to use Photoshop, and almost without exception they have the same questions, the same problems, and the same challenges—and that's exactly what he covers in this book. You'll learn: The sharpening techniques the pros really use. The pros' tricks for fixing the most common digital photo problems fast! The step-by-step setup for getting what comes out of your printer to match exactly what you see onscreen. How to process HDR (High Dynamic Range) images using CS6's Merge to HDR Pro. How to master CS6's Content-Aware features. How to use Photoshop CS6's new video editing features to make movies from your DSLR videos. How to process RAW images like a pro (plus how to take advantage of all the new Camera Raw features in CS6!). The latest Photoshop special effects for photographers (there's a whole chapter just on these!). A host of shortcuts, workarounds, and slick "insider" tricks to send your productivity through the roof! Plus, Scott includes a special bonus chapter with his own CS6 workflow, from start to finish, and each chapter ends with a Photoshop Killer Tips section, packed with timesaving, job-saving tips that make all the difference. If you're a digital photographer, and if you're ready to learn all the "tricks of the trade"—the same ones that today's leading pros use to correct, edit, sharpen, retouch, and present their work—then you're holding the book that will do just that. Note from the publisher: August 9, 2012: All binding issues mentioned in our July 31, 2012 note below have been resolved. Thank you. July 31, 2012: We have encountered issues with the binding in our initial print run of this book. If you have purchased a copy of the book you are not happy with, please return it to the store where you made your purchase to request a replacement copy right away. We apologize for the inconvenience and appreciate your patience.

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ARE YOU READY FOR AN AMAZING NEW VERSION OF THE PHOTOSHOP BOOK THAT BREAKS ALL THE RULES? Scott Kelby, Editor and Publisher of Photoshop User magazine—and the best-selling Photoshop author in the world today—once again takes this book to a whole new level as he uncovers more of the latest, most important, and most useful Adobe Photoshop CS6 techniques for digital photographers. This major update to his award-winning, record-breaking book does something for digital photographers that's never been done before—it cuts through the bull and shows you exactly "how to do it." It's not a bunch of theory; it doesn't challenge you to come up with your own settings or figure it out on your own. Instead, Scott shows you step by step the exact techniques used by today's cutting-edge digital photographers, and best of all, he shows you flat-out exactly which settings to use, when to use them, and why. That's why the previous editions of this book are widely used as the official study guides in photography courses at colleges and universities around the world. LEARN HOW THE PROS DO IT Each year, Scott trains thousands of professional photographers on how to use Photoshop, and almost without exception they have the same questions, the same problems, and the same challenges—and that's exactly what he covers in this book. You'll learn: The sharpening techniques the pros really use. The pros' tricks for fixing the most common digital photo problems fast! The step-by-step setup for getting what comes out of your printer to match exactly what you see onscreen. How to process HDR (High Dynamic Range) images using CS6's Merge to HDR Pro. How to master CS6's Content-Aware features. How to use Photoshop CS6's new video editing features to make movies from your DSLR videos. How to process RAW images like a pro (plus how to take advantage of all the new Camera Raw features in CS6!). The latest Photoshop special effects for photographers (there's a whole chapter just on these!). A host of shortcuts, workarounds, and slick "insider" tricks to send your productivity through the roof! Plus, Scott includes a special bonus chapter with his own CS6 workflow, from start to finish, and each chapter ends with a Photoshop Killer Tips section, packed with timesaving, job-saving tips that make all the difference. If you're a digital photographer, and if you're ready to learn all the "tricks of the trade"—the same ones that today's leading pros use to correct, edit, sharpen, retouch, and present their work—then you're holding the book that will do just that. Note from the publisher: August 9, 2012: All binding issues mentioned in our July 31, 2012 note below have been resolved. Thank you. July 31, 2012: We have encountered issues with the

binding in our initial print run of this book. If you have purchased a copy of the book you are not happy with, please return it to the store where you made your purchase to request a replacement copy right away. We apologize for the inconvenience and appreciate your patience.

Optics and Lasers in Biomedicine and Culture - C. Fotakis - 2012-12-06
Following the previous OWLS conferences devoted to optics in life sciences, the 5th Conference focused on recent achievements in applying lasers and optics in biomedicine and in the preservation of our cultural heritage. Particular attention is thus paid to laser diagnostics in medicine, interaction of laser radiation with biological tissue, and the development of new systems for these studies. The contributors to this volume cover such international research activities as photon migration in tissue, fibre optics, lasers in dermatology, ENT, cardiology, and in art conservation, imaging techniques in archaeology, laser technologies in contemporary art, and new laser and opto-electronic systems for biomedical and art-related studies.

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Income and Democracy - Anke Hoeffler - 2012-12-17

We revisit Lipset's law, which posits a positive and significant relationship between income and democracy. Using dynamic and heterogeneous panel data estimation techniques, we find a significant and negative relationship between income and democracy: higher/lower incomes per capita hinder/trigger democratization. Decomposing overall income per capita into its resource and non-resource components, we find that the coefficient on the latter is positive and significant while that on the former is significant but negative, indicating that the role of resource income is central to the result.

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7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7) - Vo Van Toi - 2019-06-05

This volume presents the proceedings of the 7th International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 27-29, 2018 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims to identify new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

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Haynes Manual on Welding - Jay Storer - 2018-01-25

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Modern Photography - - 1988

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Media Relations - Jane Johnston - 2020-07-25

Public relations and the media are in a time of major change. The rise of social media, altered media platforms, evolving legislative environments and new models of communication have altered not only the working environments of public relations and the news and entertainment media, but also many aspects of how these industries work together. Media Relations provides a practical and thorough introduction to media work in this changing environment. Based on a solid understanding of media culture and theory, Jane Johnston shows how to steer a path between the technical and human elements of media relations. She drills down into the different types of media, analysing their applications, strengths and weaknesses, and shows how to target your message to the right media outlets, whether national television, community radio, celebrity magazines or influential blogs. This second edition has been revised throughout and includes new case studies, and new chapters on digital and social media, media campaigns, and legal and ethical considerations. 'Media Relations: Issues and Strategies is written in an engaging, easy to understand style. It provides excellent examples and cases of media relations.' - Global Media Journal

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Master The Korean Alphabet, A Handwriting Practice Workbook - Lang Workbooks - 2019-12-26

Do you want to perfect your Korean handwriting? Do you need a trustworthy resource to teach your small children to trace the Korean alphabet? Then this workbook is the perfect companion for your studies. In it, you'll find all the modern Korean consonants and vowels, both isolated and arranged within syllables. Your benefits: Clear large letters make it easy to recognize even the most detailed of the Korean characters. Detailed stroke order instructions provide you with a strong foundation to build your skills. Dedicated "Trace and Learn" sections are designed to imprint proper stroke technique unto your muscle memory. Font variations train your brain to recognize alternative character styles. As a bonus, for each character, you'll find an extra 8.5 x 11 inches page fully dedicated to the handwriting practice of that shape and syllables containing that shape both with and without guiding background light-gray letters. Feel free to photocopy these bonus pages as you wish to extend the lifetime value of your workbook. In the last 25 pages of the workbook you'll find carefully selected high-frequency Korean syllables to allow you to train the handwriting of some of the most common building blocks of Korean words. Special information: Like with all Lang Workbooks, this work is also a labor of love. Accordingly, if you are a teacher, a student of Korean, or homeschooling your children, then you can photocopy any part of this workbook for your own, or your students, personal use. Learning to write the Hangul script by heart has never been made easy.

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Astrophysics for Physicists - Arnab Rai Choudhuri - 2010-03-11

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

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Proteases II - Walter H. Hörl - 2012-12-06

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Pteridology in the New Millennium - S. Chandra - 2013-04-17

The National Botanical Research Institute came into being as the 13th among a chain of National Laboratories established during April, 1953 under the Council of Scientific and Industrial Research by the Govt. of India for advanced research in fields of specialisation which have a direct bearing on socio-economic, industrial and scientific advancement of the nation. Christened initially as National Botanic Gardens, the nucleus around which the institution took shape under its founder- Director Late Prof. K. N. Kaul, was a large herbarium of Indian flora and a centu- old botanical garden spread over 35 ha of land on the banks of River Gomti in the heart of Lucknow city. It's a matter of great pleasure and profound satisfaction to me that a Golden Jubilee volume entitled, "Pteridology in the New Millennium" is being published and released during the Golden Jubilee year of NBRI in the honour of Professor B. K. Nayar who laid the foundation of the Pteridology Laboratory of the NBRI, which is now a well equipped laboratory for the study of Indian pteridophytes. Professor Nayar is a holistic Botanist as evident through his contributions and publications in almost all the areas of study of Pteridophyta. The contribution of Professor Nayar towards the development of modern Pteridology and the role of NBRI in it is indeed great and very important. His publications will be valuable for the younger generation of scientists in the field as well as for the more mature research workers and teachers.

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Recent Global Research and Education: Technological Challenges - Ryszard Jabłoński - 2016-09-22

Developments in the connected fields of solid state physics, bioengineering, mechatronics and nanometrology have had a profound effect on the emergence of modern technologies and their influence on our lives. In all of these fields, understanding and improving the basic underlying materials is of crucial importance for the development of systems and applications. The International Conference Inter-Academia 2016 has successfully married these fields and become a regular feature in the conference calendar. It consisted of seven thematic areas in the field of material science, nanotechnology, biotechnology, plasma physics, metrology, robotics, sensors and devices. The book Recent Global Research and Education: Technological Challenges is intended for use in academic, government and industry R&D departments, as an indispensable reference tool for the years to come. Also, we hope that the volume can serve the world community as the definitive reference source in Advances in Intelligent Systems and Computing. This book comprises carefully selected 68 contributions presented at the 15th International Conference on Global Research and Education INTER-ACADEMIA 2016, organized by Faculty of Mechatronics,

Warsaw University of Technology, on September 26-28, in Warsaw, Poland. It is the second volume in series, following the edition in 2015. It brings together the knowledge and experience of 150 leading researchers representing 13 countries. We would like to thank all contributors and reviewers for helping us to put-together this book.

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General Fireproofing - General Fireproofing Company - 1914

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Sweet Waste - Richard E. Jones - 2017-03-01

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Mineral Trioxide Aggregate in Dentistry - Josette Camilleri - 2014-07-30

Mineral trioxide aggregate (MTA) was invented in the mid-1990s at Loma Linda University, USA, with the aim of introducing a material for use as a root-end filler that would set and develop its properties in the presence of moisture. MTA is a mixture of Portland cement and bismuth oxide, which is added to enhance the radiopacity of the material. These two components are mixed with water to produce hydrated cement. This book concisely presents information on diverse aspects of MTA and its use with a view to making it more widely available to clinicians and researchers. The topics covered include the development of MTA and its introduction into clinical dentistry, its chemical composition and setting characteristics, manipulation and placement, material properties, reactivity and the influence of environmental factors. The clinical applications are clearly explained and related innovations and further materials currently available on the market are also discussed.

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9th International Symposium on High-Temperature Metallurgical

Processing - Jiann-Yang Hwang - 2018-01-16

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Manual of Forensic Odontology, Fifth Edition - David R. Senn - 2013-01-22

Advances in forensic odontology have led to improvements in dental identification for individual cases as well as in disaster victim identification (DVI). New and updated technologies mean advances in bitemark analysis and age estimation. Growth in the field has strengthened missing persons' networks leading to more and faster identifications of unidentified individuals. A product of the American Society of Forensic Odontology, the Manual of Forensic Odontology, Fifth Edition provides comprehensive and up-to-date information involving all facets of forensic dentistry and explores critical issues relating to the scientific principles supporting the field's evaluations and conclusions. New information in the Fifth Edition includes Scientific principles and the need for more and better research in the field Oral and maxillofacial radiographic features of forensic interest Forensic pathology and its ties to forensic odontology New techniques and improved technologies for age estimation Advances in bitemark evidence management Animal bitemarks National and international forensic dental organizations Tips for becoming involved in forensic odontology The manual has been an important source of forensic dentistry information for more than 20 years. This new edition is edited by a past president of the American Board of Forensic Odontology and a past Chair of the Odontology Section of the American Academy of Forensic Sciences. Expanded and enhanced with extensive color illustrations, this volume is designed to provide essential information based on sound scientific principles for experienced forensic odontologists and for those new to the discipline.

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When Good Things Happen To Bad Boys - Lori Foster - 2013-10-09

You know what happens when bad boys get what they wish for? Everything. . . New York Times Bestselling Author Lori Foster Playing Doctor Attitude makes a huge difference in bed. It could be Axel Dean's motto. The sexy

physician likes his women with sensual moxie, and Libby Preston definitely seems to fit that bill. There's that naughty grin. That hot bod. Her eager kisses and cheeky insults. Her. . . admitted virginity. Whoa. Okay, cue cold shower. Axel may not be an honorable man, but he has his limits. Except Libby won't take no for an answer. She's determined to have someone show her what she's been missing, and suddenly, Axel can't bear to think of Libby playing doctor with anyone else. . . USA Today Bestselling Author Erin McCarthy The Lady of the Lake Pro baseball player Dylan Diaz is pretty sure he's going to hell. When you rescue a drowning woman from a lake your first thought should be, "Are you okay?" not, "Can I make mad, passionate love to you?" But the minute sputtering kindergarten teacher Violet Caruthers is on Dylan's boat, that's all he can think about. Maybe it's the potent combo of a nun's personality inside a stripper's body. Maybe it's the way she drives him crazy with desire and laughter. Or maybe, Dylan's finally found what's been missing in his life, and he's not about to let go. . .

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Biomining is the use of microorganisms in the recovery of metals from ores. During bioleaching, metals such as copper, nickel or zinc are oxidized through microbial action from the water-insoluble sulfide to the soluble sulfate forms. Although gold is inert to microbial action, microbes can also be used in gold recovery from certain types of ores because as they oxidize the ore, they open up its structure, thereby allowing a gold-solubilizing agent such as cyanide to penetrate the ore. The book describes several industrial bioleaching and biooxidation processes as well as the underlying theory and biology of the microbes involved.

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Flexible and Stretchable Electronics - Run-Wei Li - 2019-12-11

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