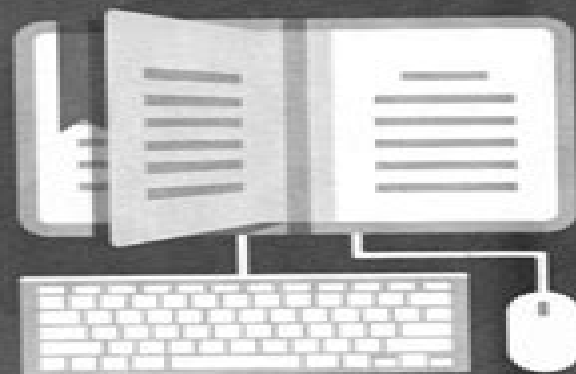


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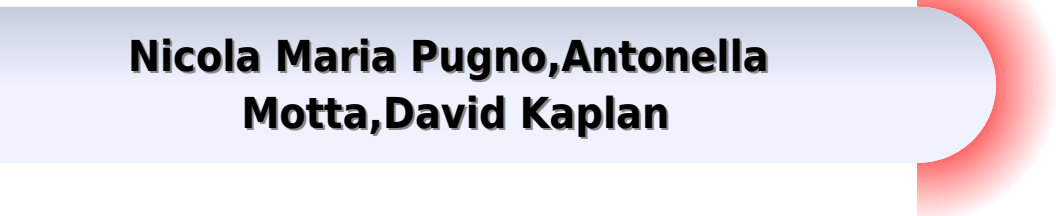
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Materials Informatics Olexandr Isayev, Alexander Tropsha, Stefano Curtarolo, 2019-12-04 Provides everything readers need to know for applying the power of informatics to materials science

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Biomedical Materials Roger Narayan, 2020-12-09 This second edition provides a comprehensive discussion of contemporary materials used in biomedical research and development The pedagogical writing style and structure provides students with an understanding of the fundamental concepts necessary to pursue research and industrial work in this growing area of biomedical science including characteristics of biomaterials biological processes biocompatibility and applications of materials in implants and medical instruments Written by leading researchers in the field this volume highlights important topics associated with biomedical engineering medicine and surgery The revised text contains updates that reflect recent technological advances in biomedical materials It contains information on new characterization methods and applications for biomedical materials and incorporates suggestions that were offered by readers and educators using the first edition over the years This textbook takes the reader to the forefront of biomedical materials development providing graduate students with a taste of how the

field is changing while also serving as a useful reference to physicians and engineers

International Tables for Crystallography, Volume H Christopher J. Gilmore, James A. Kaduk, Henk Schenk, 2019-09-16 Die Pulverdiffraktion ist in der Kristallographie die am weitesten verbreitete Methode. Die Anwendungen umfassen sämtliche Bereiche der Strukturwissenschaften. Dieser neue Band aus der Reihe International Tables deckt alle Aspekte des Verfahrens in über 50 Kapiteln ab. Autoren sind Experten des Fachgebiets. Dieser Band umfasst sieben Teile mit folgenden Inhalten: Überblick über die Prinzipien der Pulverdiffraktion; Erläuterung der bei der Pulverdiffraktion eingesetzten Strahlungsquellen, Instrumente und Ausrüstung; Einsatz unterschiedlicher Probenumgebungen und Methoden der Probenvorbereitung; Information zu Methoden einschließlich Datenverarbeitung, Indexierung und Reduktion; Whole Pattern Modellierung und quantitative Analyse sowie Überblick über die relevanten Datenbanken der Kristallographie; Fokus auf Strukturbestimmung einschließlich Methoden im realen und reziproken Raum sowie Methode der maximalen Entropie; Strukturverfeinerung und Strukturvalidierung; Erläuterung von Defekten, Textur, Mikrostruktur und Fasern einschließlich Belastung und Beanspruchung; Domänengröße und Dünnschicht; Untersuchung der für die Pulverdiffraktion verfügbaren Software; Beschreibung der Anwendungsmöglichkeiten in vielen wichtigen Bereichen: Industrie und Wissenschaften einschließlich Makromoleküle, Mineralien, Keramik, Zement, Polymere, Forensik, Archäologie und Pharmazeutika sowie Erklärung von Theorie und Anwendungen. Band H ist das wichtigste Referenzwerk für alle, die im Bereich Pulverdiffraktion tätig sind, ob Anfänger und erfahrener Praktiker. Wurde für die Praxis entwickelt, ohne Sorgfalt und Genauigkeit zu vernachlässigen. Die Methode der Pulverdiffraktion wird anhand vieler Beispiele ausführlich behandelt. Die Beispieldaten stehen teilweise als Download zur Verfügung.

Proceedings of Malaysian International Tribology Conference 2015 Mariyam Jameelah Binti Ghazali, Mohd Fadzli Bin Abdollah, 2015-11-16 This ebook is a compilation of papers presented at the Malaysian International Tribology Conference 2015 MITC2015 Penang Malaysia on 16-17 November 2015.

Sustainable Production through Advanced Manufacturing, Intelligent Automation and Work Integrated Learning Joel Andersson, Shrikant Joshi, Lennart Malmsköld, 2024-05-15 Collaboration between those working in product development and production is essential for successful product realization. The Swedish Production Academy SPA was founded in 2006 with the aim of driving and developing production research and higher education in Sweden and increasing national cooperation in research and education within the area of production. This book presents the proceedings of SPS2024, the 11th Swedish Production Symposium held from 23 to 26 April 2024 in Trollhättan, Sweden. The conference provided a platform for SPA members as well as for professionals from industry and academia interested in production research and education from around the world to share insights and ideas. The title and overarching theme of SPS2024 was Sustainable Production through Advanced Manufacturing, Intelligent Automation and Work Integrated Learning, and the conference emphasized stakeholder value, the societal role of industry, worker wellbeing and environmental sustainability in alignment with the European Commission's vision for the future of manufacturing. The 59 papers included

here were accepted for publication and presentation at the symposium after a thorough review process They are divided into 6 sections reflecting the thematic areas of the conference which were sustainable manufacturing smart production and automation digitalization for efficient product realization circular production industrial transformation for sustainability and the integration of education and research Highlighting the latest developments and advances in automation and sustainable production the book will be of interest to all those working in the field **Frontiers in Silk Science and Technology**
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