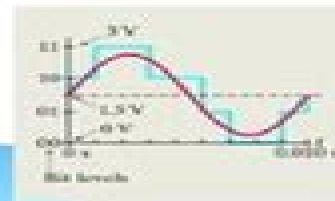
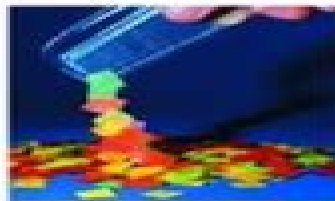


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presents the latest theoretical and practical results including numerous applications of computational intelligence in various disciplines such as engineering medicine technology and the environment The book is dedicated to Imre J Rudas on his seventieth birthday

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Electrochemical Energy Systems Artur Braun, 2018-12-03

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American Journal of Physics, 1998

Mathematics in Physics Education Gesche Pospiech, Marisa Michelini, Bat-Sheva Eylon, 2019-07-02 This book is about mathematics in physics education the difficulties students have in learning physics and the way in which mathematization can help to improve physics teaching and learning The book brings together different teaching and learning perspectives and addresses both fundamental considerations and practical aspects Divided into four parts the book starts out with theoretical viewpoints that enlighten the interplay of physics and mathematics also including historical developments The second part delves into the learners perspective It addresses aspects of the learning by secondary school students as well as by students just entering university or teacher students Topics discussed range from problem solving over the role of graphs to integrated mathematics and physics learning The third part includes a broad range of subjects from teachers views and knowledge the

analysis of classroom discourse and an evaluated teaching proposal The last part describes approaches that take up mathematization in a broader interpretation and includes the presentation of a model for physics teachers pedagogical content knowledge PCK specific to the role of mathematics in physics *Advanced Materials for Electromagnetic Shielding* Maciej Jaroszewski, Sabu Thomas, Ajay V. Rane, 2018-11-30 A comprehensive review of the field of materials that shield people and sensitive electronic devices from electromagnetic fields *Advanced Materials for Electromagnetic Shielding* offers a thorough review of the most recent advances in the processing and characterization of the electromagnetic shielding materials In this groundbreaking book the authors noted experts in the field discuss the fundamentals of shielding theory as well as the practice of electromagnetic field measuring techniques and systems They also explore applications of shielding materials used as absorbers of electromagnetic radiation or as magnetic shields and explore coverage of new advanced materials for EMI shielding in aerospace applications In addition the text contains methods of preparation and applicability of metal foams This comprehensive text examines the influence of technology on the micro and macrostructure of polymers enabling their use in screening technology technologies of shielding materials based on textiles and analyses of its effectiveness in screening The book also details the method of producing nanowires and their applications in EM shielding This important resource Explores the burgeoning market of electromagnetic shielding materials as we create depend upon and are exposed to more electronic devices than ever Addresses the most comprehensive issues relating to electromagnetic fields Contains information on the manufacturing characterization methods and properties of materials used to protect against them Discusses the important characterization techniques compared with one another thus allowing scientists to select the best approach to a problem Written for materials scientists electrical and electronics engineers physicists and industrial researchers *Advanced Materials for Electromagnetic Shielding* explores all aspects in the area of electromagnetic shielding materials and examines the current state of the art and new challenges in this rapidly growing area *AAPT Announcer* American Association of Physics Teachers, 1987

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