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[Commencement](#) Jan 13 2022

[Engineering Dilute Nitride Semiconductor Alloys for Intermediate Band Solar Cells](#) Apr 23 2020 The growth and characterization of GaAs nanowires and GaNPs thin-films is discussed within the context of finding a material system that is suitable as an intermediate band solar cell (IBSC) absorber. The IBSC is an attractive concept proposed to exceed the Shockley-Queisser detailed balance limit for photovoltaic efficiency. These solar cells have an additional intermediate band, allowing for the absorption of below bandgap photons, thus resulting in an increase in photocurrent and higher efficiency. Suitable materials systems for the implementation of the IBSC concept, however, are presently lacking. Recent work on the highly-mismatched alloy (HMA) GaAsN has shown that the unique features of the electronic band structure demonstrate optical activity of three energy bands and have led to the realization of a proof-of-concept IBSC. GaAsN, however, is not without shortcomings. Another HMA material, GaNPs, which offers a wide range of bandgap tunability and is better matched to the solar spectrum is proposed. This work covers the optical characterization of both GaAs nanowires and GaAsPN using traditional visible-light semiconductor characterization techniques including optical absorption spectroscopy, photo-modulated reflectance, steady-state photoluminescence, and spectral photoconductivity. Additionally, photovoltaic devices based on GaNPs are demonstrated and assessed as potential IBSCs.

[City of Vallejo](#) May 29 2023

[Journal of the Association of Engineering Societies ...](#) Feb 11 2022

[Safety Engineering](#) Aug 20 2022

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[Smart Technologies, Systems and Applications](#) Nov 10 2021 This book constitutes refereed proceedings of the First International Conference on Smart Technologies, Systems and Applications, held in Quito, Ecuador, in December 2019. The 27 full papers and 3 short papers presented were carefully reviewed and selected from 90 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends and applications.

[Domestic Engineering](#) Jul 27 2020

[Geology Applied to Engineering](#) Oct 10 2021 Geology Applied to Engineering bridges the gap between the two fields through its versatile application of the physical aspects of geology to engineering design and construction. The Second Edition elucidates real-world practices, concerns, and issues for today's engineering geologists and geotechnical engineers. Both undergraduate and graduate students will benefit from

the book's thorough coverage, as will professionals involved in assessing sites for engineering projects, evaluating construction materials, developing water resources, and conducting tests using industry standards. West and Shakoor offer expanded coverage of important topics such as slope stability and ground subsidence and significant fields in engineering geology, such as highways, dams, tunnels, and rock blasting. In order to allow for the diverse backgrounds of geologists and engineers, material on the properties of minerals, rocks, and soil provides a working knowledge of applied geology as a springboard to more comprehensive subjects in engineering. Example problems throughout the text demonstrate the practical applications of soil mechanics, rock weathering and soils, structural geology, groundwater, and geophysics. Thought-provoking and challenging exercises supplement core concepts such as determining shear strength and failure conditions, calculating the depth needed for borings, reading and analyzing maps, and constructing stratigraphic cross sections.

[Shipboard Electronics Material Officer](#) Sep 28 2020

[Journal of the Association of Engineering Societies](#) Mar 15 2022

[Geological Engineering](#) Sep 01 2023 A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an inte

[Building and Engineering News](#) Dec 24 2022

[Power Plant Engineering](#) Jan 25 2023

[Commencement Programs](#) Jun 17 2022

[Domestic Engineering and the Journal of Mechanical Contracting](#) May 24 2020

[Soil Fracture Mechanics](#) Feb 23 2023 Soil Fracture Mechanics:

Understanding Crack Propagation and Interaction in Soil Failure applies the concepts of fracture mechanics to the interaction and propagation of cracks in clay soils. While the most widespread methods of modeling and analysis lead to more conservative and higher security factors, the understanding of fundamentals and correct application of this theory to soils leads to more reliable and cost effective designs for slope stability and earth dams. Topics covered include fissures in clay and its mechanic characteristics, an examination of stress analysis data and modeling techniques using current computation tools, basics of laboratory testing of fissured clays, and case studies on soil failure and modeling methodology. This book will help geotechnical engineers and researchers gain a better understanding of soil applications of fracture mechanics, incorporate tools to better understand soil failure, and develop better, more cost-effective designs for earthworks projects. Explains how to apply fracture mechanics to soils Explores how to develop better designs and calculations for earthworks Teaches how fracture mechanics could lead to more cost effective projects Presents diverse cases where the technique could be applied to more precisely model soil failures

[White Slough Special Study](#) Nov 22 2022

[Geological Engineering](#) Jul 31 2023 "Interpreting a geological setting for the purposes of engineering design and construction requires knowledge of geological engineering and engineering geology, leading to integrated engineering solutions which take into account both ground conditions and environment. This textbook, extensively illustrated, covers the subject area of geological engineering in four sections: 1. Fundamentals: soil mechanics, rock mechanics and hydrogeology; 2. Methods: site investigations, rock mass characterization and engineering geology mapping; 3. Applications: foundations, slope stability, tunnelling, dams, reservoirs and earth works, and 4. Geohazards: landslides, earthquake hazards and prevention and mitigation of geological hazards. The book can serve as a basic reference work for practising engineering geologists, geological and geotechnical engineers, geologists, civil and mining engineers and those professionals involved in design and construction of foundations, tunneling, earth works and excavations for infrastructures, buildings, mining operations, etc. As a textbook it develops an extensive teaching programme of geological engineering and is designed for undergraduate and postgraduate students and academics. Covering basic concepts up to the newest methodologies and procedures used in geological engineering. The book is illustrated with many educational working examples and graphical materials"--Provided by

publisher.

**Engineering and Contracting** Jan 30 2021

Register of the University of California May 05 2021

**Directory of Federal Laboratory and Technology Resources** Aug 08

2021 Describes the individual capabilities of each of 1,900 unique resources in the federal laboratory system, and provides the name and phone number of each contact. Includes government laboratories, research centers, testing facilities, and special technology information centers. Also includes a list of all federal laboratory technology transfer offices. Organized into 72 subject areas. Detailed indices.

**Source Hierarchy List: E through N** Oct 29 2020

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**Engineering Geology for Tomorrow's Cities** Nov 30 2020 Summing up knowledge and understanding of engineering geology as it applies to the urban environment at the start of the 21st century, this volume demonstrates that: working standards are becoming internationalised; risk assessment is driving decision-making; geo-environmental change is becoming better understood; greater use of underground space is being made; and IT advances are improving subsurface visualization. --

**Fractals in Engineering Geology** Jul 19 2022

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**Engineering World** Apr 15 2022

... Annual Register of the State University of Nevada for the Year ... with Announcements for the Academic Year of ... Jan 01 2021

**Engineering-contracting** Mar 03 2021

**Perceptions of Affirmative Action Among Employees of Naval**

**Electronic Systems Engineering Center, Vallejo** Jul 07 2021

*White Slough Flood Control Study, Vallejo, Solano County* Mar 27 2023

*Fracture Mechanics Applied to Geotechnical Engineering* Apr 27 2023

This book reviews fracture mechanics theory and its application in preventing failure in geotechnical engineering works, including embankment dams, pavements, clay liners and soil covers in waste containment systems. Contributors examine stress and strain fields in the vicinity of cracks, and predict the depths to which cracks will extend beneath the surface of a drying clay. They also determine the underlying physical processes that govern inelastic behavior in brittle geologic materials. Case studies that use finite elements techniques, linear elastic fracture mechanics, and the interpretation of acoustic emissions, among other methods of investigation, are presented.

**Long Range Acquisition Estimates** Aug 27 2020

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GEOLOGICAL ENGINEERING. Jun 29 2023

*Smart Technologies, Systems and Applications* Oct 22 2022 This book constitutes refereed proceedings of the First International Conference on Smart Technologies, Systems and Applications, held in Quito, Ecuador, in December 2019. The 27 full papers and 3 short papers presented were carefully reviewed and selected from 90 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends and applications.

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