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James J. and Carol L. Shuttleworth Professor of Mechanical Engineering, and Professor of Electrical and Computer Engineering (by Courtesy) ME 2155, BRK 2048 (765) 494-5639

## **Our People - Purdue Engineering**

The expected Program outcomes (POs) of the B.Tech. in Civil

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Engineering are as follows: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.; Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated ...

## **C.E. Dept. | NIT Silchar**

A photonic lattice is an efficient platform for optically exploring quantum phenomena. However, its fabrication requires high costs and complex procedures when conventional materials, such as silicon or metals, are used. Here, we demonstrate a simple and cost-effective fabrication method for a reconfigurable chiral photonic lattice of the helical nanofilament (HNF) liquid crystal (LC) phase ...

## **Light-Driven Fabrication of a Chiral Photonic Lattice of ...**

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Aims and Scope Aims and Scope. The "International Journal of Mechanical Engineering" is an open access journal. The goal of this journal is to provide a platform for academicians, researchers and practitioners all over the world to promote, share, and discuss various new issues and developments in all areas of Mechanical Engineering.

## **International Journal of Mechanical Engineering - IARAS**

Xin-She Yang, in Nature-Inspired Optimization Algorithms (Second Edition), 2021. 6.1 Introduction. The genetic algorithm (GA), developed by John Holland and his collaborators in the 1960s and 1970s (Holland, 1975; De Jong, 1975), is a model or abstraction of biological evolution based on Charles Darwin's theory of natural selection. Holland was probably the first to use the crossover and ...

**Genetic Algorithm - an overview | ScienceDirect Topics**

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### **(PDF) chemical engineering design project | Muhammad Aliyu ...**

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Abstract. Sponsored by the Structural Engineering Institute of ASCE. Seismic Evaluation and Retrofit of Existing Buildings describes deficiency-based and systematic procedures that use performance-based principles to evaluate and retrofit existing buildings to withstand the effects of earthquakes. This next-

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generation standard combines the evaluation and retrofit process and puts forth a three ...

## **Seismic Evaluation and Retrofit of Existing Buildings ...**

This paper demonstrates the fabrication of radiation-resistant fiber Bragg grating (FBG) sensors using infrared femtosecond laser irradiation. FBG sensors were written inside acrylate-coated fluorine-doped single-mode specialty optical fibers. We detected the Bragg resonance at 1542 nm. By controlling the irradiation conditions, we improved the signal strength coming out from the FBG sensors.

## **Applied Sciences | Free Full-Text | Femtosecond-Laser ...**

This paper presents a constitutive model and data for materials subjected to large strains, high strain rates and high temperatures. The basic form of the model is well suited for computations because it uses variables which are readily

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available in most of the applicable computer codes. The materials considered are OFHC copper, Cartridge brass, Nickel 200, Armco iron, Carpenter electrical ...

## **[PDF] A CONSTITUTIVE MODEL AND DATA FOR METALS SUBJECTED ...**

Jong-ryul Choi, in Optics & Laser Technology, 2018. 2.2 DMD-implemented structured illumination microscopy. As discovered by Ernst Karl Abbe [31], optical images captured by fundamental optical systems including widefield and confocal microscopes have reached lateral and axial resolutions known as the Abbe's diffraction limit.

## **Structured Illumination Microscopy - an overview ...**

Industrial Bank of Korea (IBK; Korean: **한국산업은행**; RR: Jungso Gieop Eunhaeng) is a state-owned bank headquartered in Jung-gu, Seoul, South Korea. Under the Industrial Bank of Korea Act, IBK

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was established to promote small and medium-sized businesses and improve their economic status by providing an efficient credit system.

## **Industrial Bank of Korea - Wikipedia**

Studio Dragon Corporation (Korean: 스튜디오드래곤 주식회사; RR: Seutyudiodeuraegon Jusikhoesa) is a South Korean drama production, marketing and distribution company under CJ ENM's E&M division. It was established on May 3, 2016 as a spin-off from E&M Media Content.. The company joined the KOSDAQ index of Korea Exchange, the same index where its parent company is included, through ...

## **Studio Dragon - Wikipedia**

Teller Reveals His Secrets. The smaller, quieter half of the magician duo Penn & Teller writes about how magicians manipulate the human mind



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## **Teller Reveals His Secrets | Arts & Culture | Smithsonian**

...

Considering the Dirac point, the carrier concentration of the MLG before and after chemical treatment can be calculated by the expression  $n = C_g (V_{\text{CNP}})/e$ , where  $C_g$  is the gate capacitance per unit area with an estimated value of  $\sim 115 \text{ aF cm}^{-2}$ ,  $e$  is the electronic charge, and  $V_{\text{CNP}}$  is the charge neutrality point (i.e., Dirac point) of the ...

## **Fermi-Level Modulation of Chemical Vapor Deposition-Grown ...**

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Concern over the potential for lung injury due to mechanical ventilation has fueled investigations on lung protection in the operating room. 1-3 Based on the intensive care literature, 4 tidal volume ( $V_T$ ) and positive end-expiratory pressure (PEEP) settings have been the focus of intraoperative clinical trials. 1-3 Recent results in acute respiratory distress syndrome (ARDS) 5 and ...

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