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EPITAXIAL GROWTH OF THICK FILMS OF BORON PHOSPHIDE ON SILICON CARBIDE AND ITôS PROPERTIES

Balabalaji Padavala, Clint D. Frye, and James H. Edgar
Department of Chemical Engineering, College of Engineering

BACKGROUND AND PURPOSE: Boron phosphide (BP) is potentially useful in neutron detection because of the large thermal neutron capture cross-section of the boron-10 isotope. In the CVD growth of BP films, various problems like film cracking and incorporation of substrate impurities into the film have been reported in the literature. Silicon carbide (SiC) which is a superior substrate in terms of lattice match, thermal expansion coefficient and chemical stability could eliminate these problems. **METHOD:** In this work, cubic BP was epitaxially grown on SiC by thermal decomposition of B_2H_6-PH_3 mixture in H_2 at te

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PROTECTION, CONTROL AND COMMUNICATION FOR A 230 KV TRANSMISSION LINE USING A PILOT OVERREACHING TRANSFER TRIPPING (POTT)

Lazaro Samuel Escalante and Noel Schulz
Department of Electrical and Computer Engineering, College of Engineering

BACKGROUND AND PURPOSE: New applications emerge in the increasingly changing field of power systems in the United States and across the world. Thus, it causes new pressure in the grid performance. Hence, power system protection being fundamental aspect of a system that must be ad

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[1]Deaprtment of Chemical Engineering, College of Engineering; [2]IGERT in Biorefining, Department of Chemical Engineering,ring

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TRANSFER-LENGTH MEASUREMENTS ON CONCRETE RAILROAD TIES FABRICATED WITH 15 DIFFERENT PRESTRESSING REINFORCEMENTS

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STUDYING THE IMPACT OF SPEED LIMIT CHANGE ON HORIZONTAL CURVE CRASHES

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ANALYZING THE EFFECTIVENESS OF BIOPHILIC DESIGN IN FACILITATING CREATIVITY

Caitlin Molenaar and **Teague Peak**
Department of Interior Architecture and Product Design, College of Architecture, Planning, and Design

In this paper, authors will discuss how biophillic design practices enhance the innovation and creativity of employees in the work environment. **BACKGROUND AND PURPOSE:** Biophilia, a concept first described by biologist E.O. Wilson, is described as hu u þ ɜ T M i- Ϙ l ɐ e m φ o

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THE CHANGING TIMES, CHANGING NEEDS: THE FUTURE OF EFFECTIVE WAYFINDING IN THE WORKPLACE

Brian Davis, Anthony Dorrel, Sarah Swaim, and Vibhavari Jani
Department of Interior Architecture and Product Design, College of Architecture, Planning, and Design

BACKGROUND AND PURPOSE: The office is an ever changing environment, and with the transformation

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Joyce Baptist, **Patricia Barros-Gomes**, Bryan Cafferky, and Elaine Johannes
Department of Family Studies and Human Services, College of Human Ecology

BACKGROUND AND PURPOSE: The current

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Scott Bell[1], Angie Miller[2], Tim Frey[3], and Eugene Vasserman[1]
[1]Department of Computer Science, College of Engineering; [2]Manhattan-Ogden School District; [3]Department of Education, Doane College

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