What are the means to enhance and analyze the electromagnetic interference shielding effectiveness of various polymer-materials-impregnated conductive materials?

The Defense Systems Information Analysis Center (DSIAC) received technical inquiries regarding the means to enhance and analyze the electromagnetic interference shielding effectiveness (SE) of various polymer-materials-impregnated conductive materials, such as copper meshes, nickel-coated carbon fibers, and polyether ether ketone. Technical experts at DSIAC compiled information about the state of research regarding the SE of these composite materials, the companies that produce them and offer electromagnetic SE testing services, and the various... LEARN MORE
VOICE FROM THE COMMUNITY

Chris Peitsch
Avonix Imaging

Chris Peitsch is a subject matter expert in industrial computed tomography (CT) at X-ray & CT Imaging Systems at Avonix Imaging. Prior to joining Avonix Imaging, he was a research engineer at the Johns Hopkins University Applied Physics Laboratory, where he focused on X-ray CT and its applications in additive manufacturing, electronics systems inspection, and aviation security. Mr. Peitsch also worked at Chesapeake Testing, in Aberdeen, MD, where he launched a large X-ray/CT inspection service laboratory.

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HIGHLIGHT

U.S. Army Training and Doctrine Command Updates Army Capstone Doctrine, Codifying Shift to Multidomain Operations

WASHINGTON — U.S. Army Training and Doctrine Command released the latest version of the Army’s capstone operations doctrine, Field Manual 3-0, Oct. 11, 2022, as senior leaders gathered for the 2022 Association of the United States Army Annual Meeting and Exposition, Oct. 10-12, in Washington D.C. The manual is available to view and download on the Army Publishing Directorate website. LEARN MORE

FEATURED NEWS

National Defense Strategy

On October 27, 2022, the U.S. Department of Defense publicly released the unclassified National Defense Strategy (NDS), a Congressionally-mandated review. This strategy sets the strategic direction of the Department to support U.S. national security priorities and flows directly from President Biden’s National Security Strategy. The NDS includes the Nuclear Posture Review (NPR) and the Missile Defense Review (MDR). READ MORE

Image: U.S. Navy
WEBINARS

Cost-Effective Verification, Validation, and Accreditation (VV&A) in the Systems Engineering Process: Focusing V&V on A

Presented: December 7, 2022 12:00 PM
Presenter: David Hall
Host: DSIAC

The U.S. Naval Air Warfare Center Aircraft Division (NAWCAD) Warfare Effectiveness Department (WED) VV&A Branch has developed and executed a cost-effective, risk-based VV&A process for modeling and simulation (M&S) used to support the U.S. Department of Defense (DoD). LEARN MORE

Development and Utilization of TIPS Within the FRACTALS at the DEVCOM Analysis Center
January 11, 2023 12:00 PM

EVENTS

Advanced Materials for Defense Summit
November 16–17, 2022

Eglin AFB Tech Expo
November 17, 2022

Military Vehicle Systems Summit
November 30–December 1, 2022

Defense Manufacturing Conference 2022
December 5–8, 2022

Military Standard 810 (MIL-STD-810) Testing Open Course
January 23–26, 2023

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