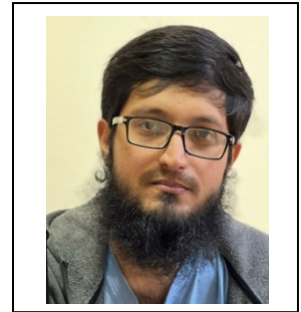


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Mr. Kashif Azher

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Paper ID: 323

Paper Title: Design for Additive Manufacturing: Enhancing the Strength-to-Weight of Mechanical Metamaterials for Energy Applications

Bio:

Kashif Azher is a mechanical engineering PhD candidate at King Fahd University of Petroleum & Minerals, Saudi Arabia, whose research spans additive manufacturing, nanomaterials fabrication, and advanced materials characterization. With 4+ years of experience, he designs and models lattice and mechanical metamaterials, runs multimaterial 3D prints, and simulates processes in ANSYS.

He has authored multiple peer-reviewed papers, including recent work on 4D printing, Ti6Al4V DED modeling, and hybrid metamaterials. Previously, he earned an MSc from National Taiwan University of Science and Technology, Taiwan, and a Bachelor's degree from NED University, Pakistan. Skills include CAD, FEA (ANSYS), MATLAB, additive-manufacturing process modeling, materials characterization, and quantitative data analysis.