MATERIALS THAT MATTER

FVMat

DESIGN, SIMULATION & PRODUCTION
OF NOVEL META-MATERIALS

About Us

FVMat develops a platform that enables engineers to solve complex challenges using Meta-Materials. The platform utilizes AI to develop fast and efficient simulations with precise results.

Our technology enables the production of lightweight intelligent parts with superior performance characteristics.

The Challenge

Traditional materials can't meet the complex requirements of industries. The demand for Meta-Materials with unique properties is rising. **FVMat** provides advanced simulation tools to design & optimize Meta-Materials and address industry challenges effectively.

Value Proposition

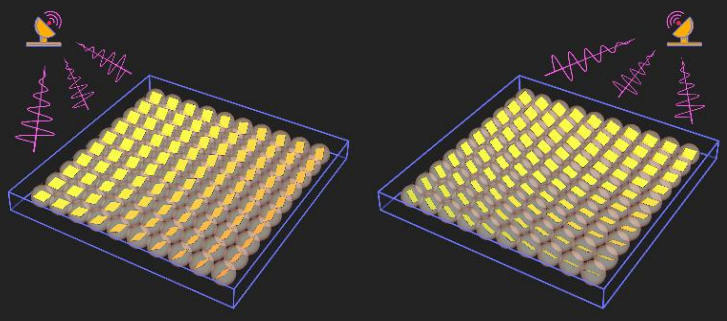
FVMat enables system simplification:

Integrate several components into One
Weight Reduction up to 40%
Optimized performance through Efficiency
Reduced Maintenance
Reduce the points of Failure

Via dynamic & multi-functional Meta-Materials.

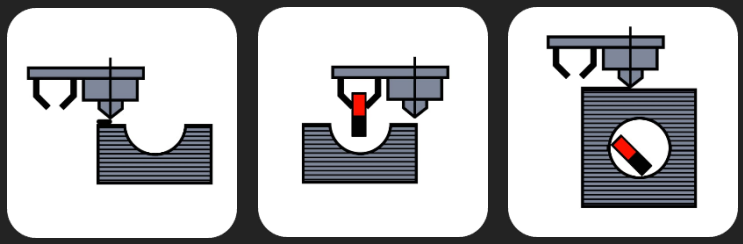
Technology

FVMat revolutionized composites by designing Meta-Materials with dynamic microstructures.



Production

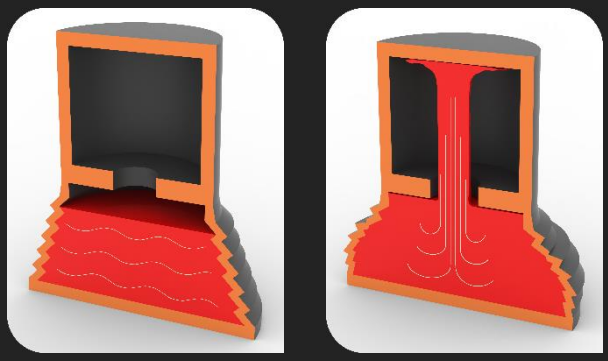
The components are fabricated by combining 3D printing and proprietary additive techniques.



Applications

Micro-Antenna array with Dynamic Focus-Control or Multifocal Antenna

Shock Absorbing meta-material



Facts & Figures

TRL 5 & 6 validated technology
$900K Investment through IIA
Pipeline of 10 beta sites
Achievements: POC with a leading aerospace Israeli company, Collaboration with UC Berkeley, Starburst startup accelerator, JEC World Startup Booster
IP: PCT & Patents

Contacts

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FVMat – Novel Composite Materials with Extraordinary Properties