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MSE 170 Fundamentals of Materials

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Materials science is a syncretic discipline hybridizing metallurgy, ceramics, solid-state physics, and chemistry. It is the first example of a new academic

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discipline emerging by fusion rather than fission. Many of the most pressing scientific problems humans currently face are due to the limits of available materials and how they are used.

## **Materials science - Wikipedia**

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The Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> flake acts as an inhomogeneous nucleation agent, similar to the other precursors such as graphene and BN used in the growth of 1 L MoS<sub>2</sub> and WS<sub>2</sub> [20][21][22].

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Callister and Rethwisch's Fundamentals of Materials Science and Engineering 4th Edition continues to be the go-to text for basic materials science concepts.

Written in a clear and concise way, this text will help you to understand the fundamentals of structures and property types as they relate to the three basic

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Science And Engineering  
material types: metals, ceramics, and  
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William D. Callister; David G. Rethwisch  
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