

eBook Information

Mechanical Properties of MAX Phases

D.J. Fisher

Monograph / PDF eBook DRM Free

MAX Phase Materials are uniquely structured carbide and nitride materials which combine the rigidity, oxidation-resistance and high-temperature strength of ceramic materials.

Keyword: MAX Phase Materials, Rigidity, High-Temperature Strength, Machinability, Microelectronic Layers, Electrical Contact Coatings, Thermal-Shock Resistance, Heating Elements, Neutron-Irradiation Resistant Materials, Thermal Barriers, Bio-compatible Materials

ISBN 13: 978-1-64490-127-4, **Publication Date:** 2021 (4/5/2021)

Direct URL: <https://www.mrforum.com/product/max-phases>

134 pages, PDF eBook DRM Free, USD 100.00

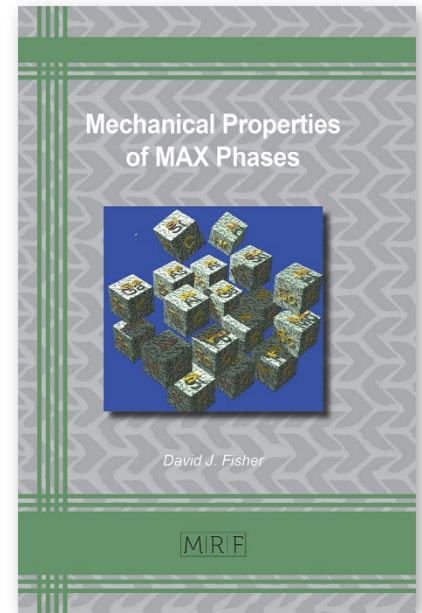
Materials Research Foundations Vol. 97 / **BISAC:** TEC021000 /

BIC/Thema: TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

MAX Phase Materials are uniquely structured carbide and nitride materials which combine the rigidity, oxidation-resistance and high-temperature strength of ceramic materials with such metallic properties as good machinability, thermal-shock resistance, damage-tolerance and good transport properties. Potential applications include microelectronic layers, coatings for electrical contacts, thermal shock-resistant refractories, high-temperature heating elements, neutron-irradiation resistant nuclear applications, thermal barriers, protective aerospace coatings, and bio-compatible materials. The book reviews theoretical and experimental research up to early 2021 and references 185 original resources with their direct web links for in-depth reading.



Print Book Information

Mechanical Properties of MAX Phases

D.J. Fisher

Monograph / color print, paperback

MAX Phase Materials are uniquely structured carbide and nitride materials which combine the rigidity, oxidation-resistance and high-temperature strength of ceramic materials.

Keyword: MAX Phase Materials, Rigidity, High-Temperature Strength, Machinability, Microelectronic Layers, Electrical Contact Coatings, Thermal-Shock Resistance, Heating Elements, Neutron-Irradiation Resistant Materials, Thermal Barriers, Bio-compatible Materials

ISBN 13: 978-1-64490-126-7, **Publication Date:** 2021 (4/5/2021)

Direct URL: <https://www.mrforum.com/product/max-phases>

134 pages, color print, paperback, USD 100.00

Materials Research Foundations Vol. 97 / **BISAC:** TEC021000 /

BIC/Thema: TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

MAX Phase Materials are uniquely structured carbide and nitride materials which combine the rigidity, oxidation-resistance and high-temperature strength of ceramic materials with such metallic properties as good machinability, thermal-shock resistance, damage-tolerance and good transport properties. Potential applications include microelectronic layers, coatings for electrical contacts, thermal shock-resistant refractories, high-temperature heating elements, neutron-irradiation resistant nuclear applications, thermal barriers, protective aerospace coatings, and bio-compatible materials. The book reviews theoretical and experimental research up to early 2021 and references 185 original resources with their direct web links for in-depth reading.

