



MAX Phases: Properties of Machinable Ternary Carbides and Nitrides

By Michel W. Barsoum

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In this comprehensive yet compact monograph, Michel W. Barsoum, one of the pioneers in the field and the leading figure in MAX phase research, summarizes and explains, from both an experimental and a theoretical viewpoint, all the features that are necessary to understand and apply these new materials. The book covers elastic, electrical, thermal, chemical and mechanical properties in different temperature regimes.

By bringing together, in a unified, self-contained manner, all the information on MAX phases hitherto only found scattered in the journal literature, this one-stop resource offers researchers and developers alike an insight into these fascinating materials.

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Editorial Review

From the Back Cover

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About the Author

Michel W. Barsoum is Distinguished and Grosvenor-Professor in the Department of Materials Science and Engineering at Drexel

University, USA. His research group was the first to fabricate and fully characterize the MAX phases, an important new class of machinable

ternary carbides and nitrides on which he and his collaborators have published more than 200 papers. He is also the author of a textbook

on the Fundamentals of Ceramics, the leading textbook in the field. Prof. Barsoum was awarded a Humboldt Max Planck Research Award

in 2000 and spent one year at the Max Planck Institute in Stuttgart, Germany. In 2008 - 2009 he spent a sabbatical year at Los Alamos

National Lab as the prestigious Wheatley Scholar. He is a Fellow of the American Ceramic Society and the World Academy of Ceramics.

In addition, Prof. Barsoum is visiting professor at Linköping University in Sweden. With a h index of close to 50, his work has been highly and

widely cited. He is on ISI's most highly cited authors list. He is the author of the two entries on the MAX phases in the Encyclopedia of Materials Science and Engineering.

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