

**Professor Krishan Kumar Chawla**

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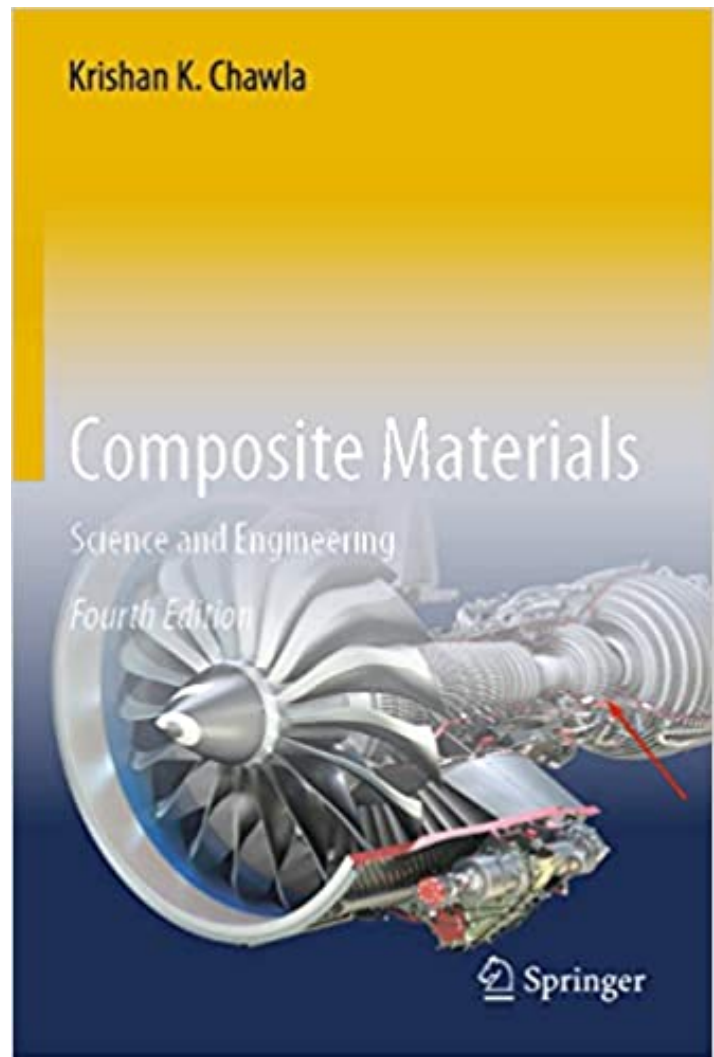
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**Biography:**

Krishan K. Chawla is professor emeritus in the Materials Science and Engineering department of the University of Alabama. He received his Ph.D. and M.S. degrees in Metallurgical Engineering at the University of Illinois at Urbana-Champaign. His research interests include Processing, microstructure, and properties of materials in general, with a special emphasis on fibers, composite materials, and foams. He has taught and done research at institutions in Switzerland, Brazil, Canada, and the United States and has served as a consultant to industry, national laboratories, and government agencies. He is the author of several successful textbooks that have been published in multiple editions.

**Selected Publications:**

**Books:**



Marc Andre Meyers and Krishan K. Chawla, *Mechanical Behavior of Materials*, 2<sup>nd</sup> Edition, Cambridge University Press, 2008, 882 pages  
Krishan K. Chawla, *Composite Materials: Science and Engineering*, 4th Edition, Springer, 2019, 590 pages  
Nikhilesh Chawla and Krishan K. Chawla, *Metal Matrix Composites*, 2nd Edition, Springer, 2013, 386 pages  
Krishan Chawla, *Fibrous Materials*, 2nd Edition, Cambridge University Press, 2016, 321 pages  
Gary M. Gladysz and Krishan K. Chawla, *Voids in Materials: From Unavoidable Defects to Designed Cellular Materials*, Elsevier, 2014, 203 pages  
G.M. Gladysz, K.K. Chawla, “Encyclopedia of Polymer Science and Technology”, John Wiley (2004) (Ch. Composite Foams)

**Journal Articles, etc.:**

Koopman, M., Gouadec, G., Carlisle, K., Chawla, K.K., Gladysz, G.: Compression testing of hollow microspheres (microballoons) to obtain mechanical properties. *Scr. Mater.* 50, 593–596 (2004)  
Carlisle, K.B., Koopman, M., Chawla, K.K., Kulkarni, R., Gladysz, G.M., Lewis, M.: Microstructure and compressive properties of carbon microballoons. *J. Mater. Sci.* 41, 3987–3997 (2006)  
M. Koopman, K.K. Chawla, K.B. Carlisle, G.M. Gladysz, “Microstructural failure modes in three-phase glass syntactic foams”, *Journal of Materials Science*, 41 (13) (2006), pp. 4009-4014  
K.B. Carlisle, M. Lewis, K.K. Chawla, M. Koopman, G.M. Gladysz, “Finite element modeling of the uniaxial compression behavior of carbon microballoons”, *Acta Materialia*, 55 (7) (2007), pp. 2301-2318