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Dileep Singh currently leads the Thermal and Structural Materials Group at Argonne National Laboratory and oversees research from various U. S. Department of Energy Program Offices including Solar, Vehicles, Advanced Manufacturing, and Nuclear Energy. Singh joined Argonne as a post-doctoral fellow in 1991. His research has focused on materials processing, mechanical behavior, and reliability of composite materials for energy related applications. Singh has been recognized for his contributions in the development of low-temperature ceramics (Ceramicrete™) for structural applications and hazardous and radioactive waste containment. He has applied high-energy synchrotron x-rays based advanced characterization techniques for studying structure/property relationships of engineering materials. Recently, along with his colleagues, he has developed advanced thermal systems for concentrated solar power, process industry, and building applications. He holds 22 U.S. and international patents, has over 160 publications, and edited several conference proceedings. Singh is a Fellow of the American Ceramic Society and the American Society of Metals (ASM)-International, and is an academician of the World Academy of Ceramics. He has received two R&D 100 Awards, Federal Laboratory Consortium award for technology transfer, and Distinguished Engineering Achievement Award from the Engineer's Council. Singh serves on the editorial board of several journals. He received a BS in Metallurgical Engineering from the Indian Institute of Technology (Kanpur), an MS in Metallurgical Engineering from Wayne State University, and a PhD in Materials Science and Engineering from the University of Utah.