



## Coating Technology for Vehicle Applications

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This book describes current, competitive coating technologies for vehicles. The authors detail how these technologies impact energy efficiency in engines and with increased use of lightweight materials and by varying coatings applications can resolve wear problems, resulting in the increased lifecycle of dies and other vehicle components.

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### Editorial Review

#### From the Back Cover

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#### About the Author

**Sung Chul Cha** is a Senior Research Engineer at the Hyundai Motor Group, Automotive, Research and Development Division, in Hwaseong, Korea. He received his Diploma of Engineering (1998) and a Doctor of Engineering degree (2001) in Georesources and Materials Engineering from RWTH Aachen, Germany. In 2002 he became a research associate and postdoc at the Department of Interface Chemistry and Surface Engineering at the Max Planck Institute for Iron Research (MPIE), Düsseldorf, Germany, and continued his research in the field of high temperature materials and reactions including coating technology. In 2005 he began work in the area of materials engineering and material properties at Siemens Power Generation, Mülheim a.d. Ruhr, Germany. Since 2007 he has been employed at the Hyundai Motor Group and responsible for the development of automotive materials. Dr. Cha has published over 20 scientific papers and holds more than 30 international patents. He was a keynote speaker, chair, and reviewer of the session on “Coated Materials” (2014) and a reviewer and chair of the session “Automotive Tribology” (2013) at the SAE World Congress & Exhibition and he was an invited keynote speaker for the SVC 2014 Conference.

**Ali Erdemir** is an Argonne Distinguished Fellow and Senior Scientist with international recognition and significant accomplishments in the fields of materials science, surface engineering and tribology. He received his B.S. degree from Istanbul Technical University in 1977 and M.S. and Ph.D. degrees in Materials Science and Engineering from the Georgia Institute of Technology in 1982 and 1986, respectively. His discoveries of nearly frictionless carbon and superhard nanocomposite coatings, as well as a range of novel nanolubricants and lubrication additives, have been hailed as major breakthroughs in the field. Erdemir’s research is directed toward nanoscale design and large-scale manufacturing of new materials, coatings and green lubricants for a broad range of applications in manufacturing, transportation and other energy conversion and utilization systems where further increases in efficiency, reliability and environmental compatibility are the primary objectives. Erdemir has received numerous awards, including five R&D 100 Awards; holds 16 U.S. patents; and has published more than 290 papers, 18 invited book and handbook chapters, and two edited books. He is a Fellow of ASME, STLE, AVS, and ASM-International.

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