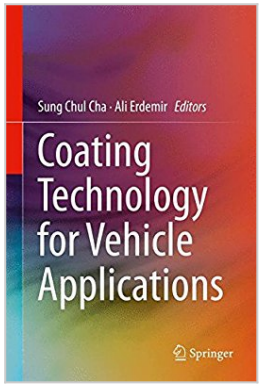

Coating Technology for Vehicle Applications

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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

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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.

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