



Automotive Transmissions: Fundamentals, Selection, Design and Application

By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak

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This book gives a full account of the development process for automotive transmissions. Main topics: - Overview of the traffic – vehicle – transmission system - Mediating the power flow in vehicles - Selecting the ratios - Vehicle transmission systems - basic design principles - Typical designs of vehicle transmissions - Layout and design of important components, e.g. gearshifting mechanisms, moving-off elements, pumps, retarders - Transmission control units - Product development process, Manufacturing technology of vehicle transmissions, Reliability and testing The book covers manual, automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles. Furthermore, final drives, power take-offs and transfer gearboxes for 4-WD-vehicles are considered. Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions. About 40% of the second edition's content is new or revised with new data.

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Editorial Review

From the Back Cover

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About the Author

Harald Naunheimer studied at the Universität Stuttgart. He got his degree in mechanical engineering in 1988. Afterwards, he worked as a research assistant in the field of automotive transmissions at the Universität Stuttgart. He earned his doctorate in mechanical engineering in 1995. Harald Naunheimer is author of the English edition of "Automotive Transmissions". From 1995-2001 he worked in the vehicle transmissions division of RENK AG in Augsburg, Germany. He joined ZF in 2001 as a senior manager for application engineering in the automatic transmissions business unit at ZF Getriebe GmbH in Saarbruecken, Germany. From 2006-2009 he was Director of Product Development, Automatic Transmissions for ZF Getriebe GmbH, in Friedrichshafen. Harald Naunheimer was named Vice President of Corporate Research and Development at ZF Friedrichshafen AG during July 2009, headquartered in Friedrichshafen, Germany. Professor Bernd Bertsche earned his degree and doctorate in mechanical engineering at the Universität Stuttgart. Afterwards, he worked for Mercedes-Benz AG in the passenger car development unit followed by a position as professor at the University of Applied Sciences in Albstadt-Sigmaringen. Later, he was appointed at the Universität Stuttgart. Since 2001, Professor Bertsche is the ordinary and director for the Institute of Machine Components at the Universität Stuttgart. Joachim Ryborz studied mechanical engineering and worked as research assistant of Professor Gisbert Lechner in the field of automotive transmissions at the Universität Stuttgart. He earned his doctorate in mechanical engineering in 2003. He is co-author of the 1st English edition of this book as well as coauthor of the 2nd German edition. Since 2002, he has been working in the transmission development for light commercial vehicle at ZF Friedrichshafen AG, amongst others as project manager for manual, automated and hybrid transmissions. Wolfgang Novak studied mechanical engineering at the Universität Stuttgart. From 2002-2003 he worked at McLaren Cars Limited as a development engineer for sports car transmissions. Afterwards, he worked as a research assistant of Professor Bernd Bertsche at the drive technology department and he is co-author of the 2nd German edition. He earned his doctorate in mechanical engineering in 2010. Since 2008, he has been working in the transmission development center at Daimler AG in Stuttgart, Germany.

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