



Automotive Transmissions: Fundamentals, Selection, Design and Application

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

Download now

Read Online 

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak

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.

 [Download Automotive Transmissions: Fundamentals, Selection, ...pdf](#)

 [Read Online Automotive Transmissions: Fundamentals, Selectio ...pdf](#)

Automotive Transmissions: Fundamentals, Selection, Design and Application

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

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak

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.

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak **Bibliography**

- Sales Rank: #1953476 in Books
- Published on: 2010-12-13
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.56" w x 6.14" l, 2.60 pounds
- Binding: Hardcover
- 717 pages

 [Download Automotive Transmissions: Fundamentals, Selection, ...pdf](#)

 [Read Online Automotive Transmissions: Fundamentals, Selectio ...pdf](#)

Download and Read Free Online Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak

Editorial Review

From the Back Cover

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.

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.

Users Review

From reader reviews:

Evelyn Brown:

Book will be written, printed, or outlined for everything. You can realize everything you want by a e-book. Book has a different type. As we know that book is important issue to bring us around the world. Alongside that you can your reading proficiency was fluently. A book *Automotive Transmissions: Fundamentals, Selection, Design and Application* will make you to become smarter. You can feel considerably more confidence if you can know about every thing. But some of you think that will open or reading some sort of book make you bored. It isn't make you fun. Why they could be thought like that? Have you seeking best book or ideal book with you?

Kyle Guthrie:

Nowadays reading books be a little more than want or need but also get a life style. This reading behavior give you lot of advantages. The advantages you got of course the knowledge the actual information inside the book that will improve your knowledge and information. The info you get based on what kind of e-book you read, if you want attract knowledge just go with education books but if you want really feel happy read one along with theme for entertaining including comic or novel. The particular *Automotive Transmissions: Fundamentals, Selection, Design and Application* is kind of guide which is giving the reader unforeseen experience.

Marietta Allred:

The particular book *Automotive Transmissions: Fundamentals, Selection, Design and Application* has a lot details on it. So when you read this book you can get a lot of advantage. The book was published by the very famous author. McDougal makes some research prior to write this book. This particular book very easy to read you can find the point easily after scanning this book.

Bernard Walker:

Many people spending their time by playing outside together with friends, fun activity with family or just watching TV the entire day. You can have new activity to pay your whole day by studying a book. Ugh, think reading a book really can hard because you have to use the book everywhere? It okay you can have the e-book, having everywhere you want in your Mobile phone. Like *Automotive Transmissions: Fundamentals, Selection, Design and Application* which is having the e-book version. So , why not try out this book? Let's notice.

Download and Read Online *Automotive Transmissions: Fundamentals, Selection, Design and Application* By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak

#LYJW3XV2SAB

Read Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak for online ebook

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak books to read online.

Online Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak ebook PDF download

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak Doc

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak MobiPocket

Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak EPub

LYJW3XV2SAB: Automotive Transmissions: Fundamentals, Selection, Design and Application By Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak