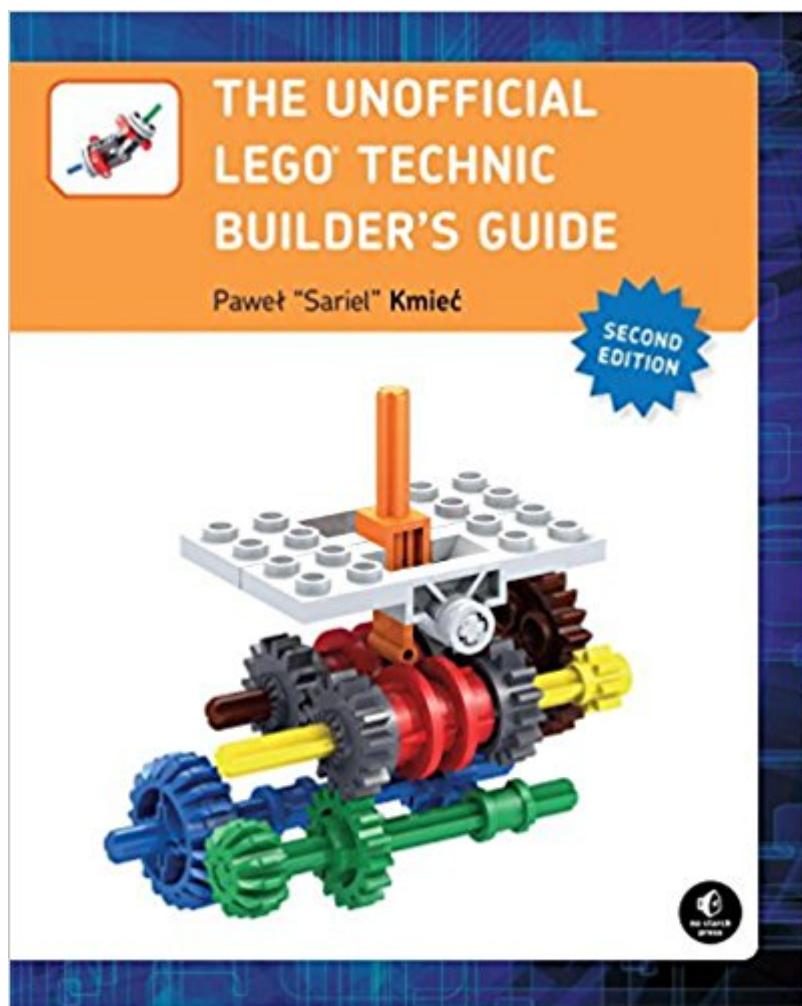


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# The Unofficial LEGO Technic Builder's Guide, 2nd Edition



## Synopsis

This thoroughly updated second edition of the best-selling Unofficial LEGO Technic Builder's Guide is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Pawe? "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to: 

- Build sturdy connections that can withstand serious stress
- Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings
- Create your own differentials, suspensions, transmissions, and steering systems
- Pick the right motor for the job and transform it to suit your needs
- Combine studfull and studless building styles for a stunning look
- Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines

 This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters!

## Book Information

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Home > Crafts & Hobbies > Crafts for Children #497 in Books > Engineering & Transportation

> Engineering > Mechanical

Age Range: 10 and up

Grade Level: 5 and up

## Customer Reviews

Pawe? "Sariel" Kmie? is a LEGO Technic enthusiast based in Warsaw, Poland. His LEGO creations have been featured in many magazines and on the world's most popular LEGO blogs. Sariel is a guest blogger for the official LEGO Technic website and is a LEGO Ambassador for Poland. He is YouTube's most viewed LEGO Technic builder and the author of *Incredible Lego Technic*.

Really a cool book by one of the elite technic builders. Helps you add to your lego skill set.

Great breakdown of complex mechanical structures in a logical and constructive way. Would recommend the book to anyone who looked at some of the more complex models and asked how did they do that.

My 12 year old received this for Christmas 2016. I think he was a little overwhelmed with it at first, then came back to me later with the book and was marveling at some of the ideas in it. He was inspired to make more complex and adventurous builds. Mission accomplished. Highly recommend for Lego Technic enthusiasts.

thanks

Incredible book, a must have for anyone interested in moving their Lego building creativity to the next level. Easy read too, my son (15 years old) can't put this book away! Kudos to the author (Pawel "Sariel" Kmiec) for writing this book!

Big book, lots of images. It's must have for all LEGO Technic fans.

Awesome

Beautiful book and well worth the price,. They could charge much more and it would be worth it.

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