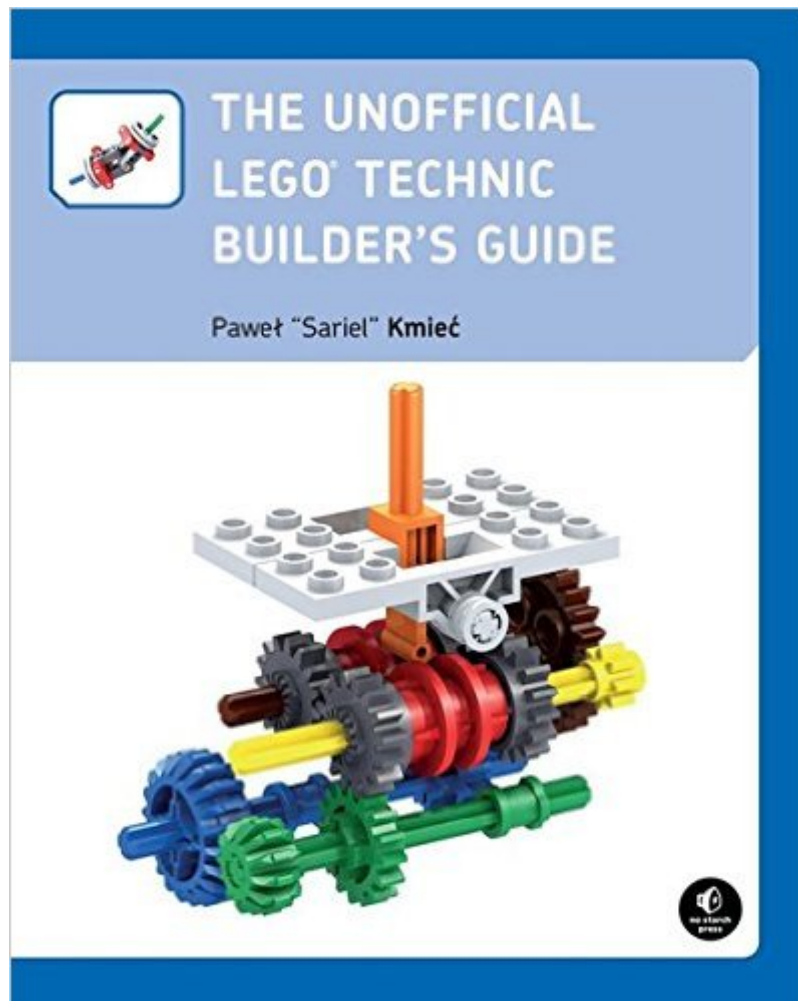


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The Unofficial LEGO Technic Builder's Guide



Synopsis

The LEGO® Technic system opens a new realm of building possibilities. Using motors, gears, pneumatics, pulleys, linkages, and more, you can design LEGO models that really move. The Unofficial LEGO Technic Builder's Guide is filled with building tips for creating strong yet elegant machines and mechanisms with the Technic system. Author Pawel "Sariel" Kmiec will teach you the foundations of LEGO Technic building, from simple machines to advanced mechanics, even explaining how to create realistic to-scale models. Sariel, a world-renowned LEGO Technic expert, offers unique insight into mechanical principles like torque, power translation, and gear ratios, all using Technic bricks. You'll learn how to: Create sturdy connections that can withstand serious stress Re-create specialized LEGO pieces like casings and u-joints, and build solutions like Schmidt and Oldham couplings, when no standard piece will do Build custom differentials, suspensions, transmissions, and steering systems Pick the right motor for the job "and transform its properties to suit your needs Combine studfull and studless building styles for a stunning look Create 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. Your Technic adventure starts now!

Book Information

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Customer Reviews

Both new and experienced LEGO Technic fans will find Pawel Kmiec's Unofficial LEGO Technic

Builder's Guide to be an excellent construction resource. For the new builder, Kmiec offers multiple, full color illustrations on nearly every page, along with an excellent overview of beams, plates, bricks, gears and pins. Meanwhile, expert builders will find themselves immersed in detailed explanations of linear clutches, ratchets, Scotch yokes, Oldham couplings and contraptions for which they never new the name! Best of all, though, is that Kmiec offers both mini and complete building examples to help the reader master each type of mechanism. Whereas this book contains an incredible wealth of technical knowledge for all skill levels, one chapter that has incredible universal appeal is Chapter 11: Building Strong. Kmiec does a fantastic job of helping builders identify weak components or structural concerns, then offers robust tips for reinforcing gear boxes, strengthening load bearing structures and choosing the right parts from the start. Since many Technic creations roll and/or move, Kmiec dedicates a good portion of his book to advanced mechanics, but even the newest Technic fans will enjoy these sections because he offers step-by-step instructions ranging from simple suspensions all the way to rough terrain tackling, pendular portal designs. Despite the complex sound and appearance of things, Kmiec breaks down concepts simply, ensuring your next car, truck, crane or robot will be remarkable. Fans of both the old and new LEGO pneumatic systems will find two chapters dedicated to air powered contraptions, concluding with impressive instructions on how to build both a single and a two cylinder pneumatic engine.

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