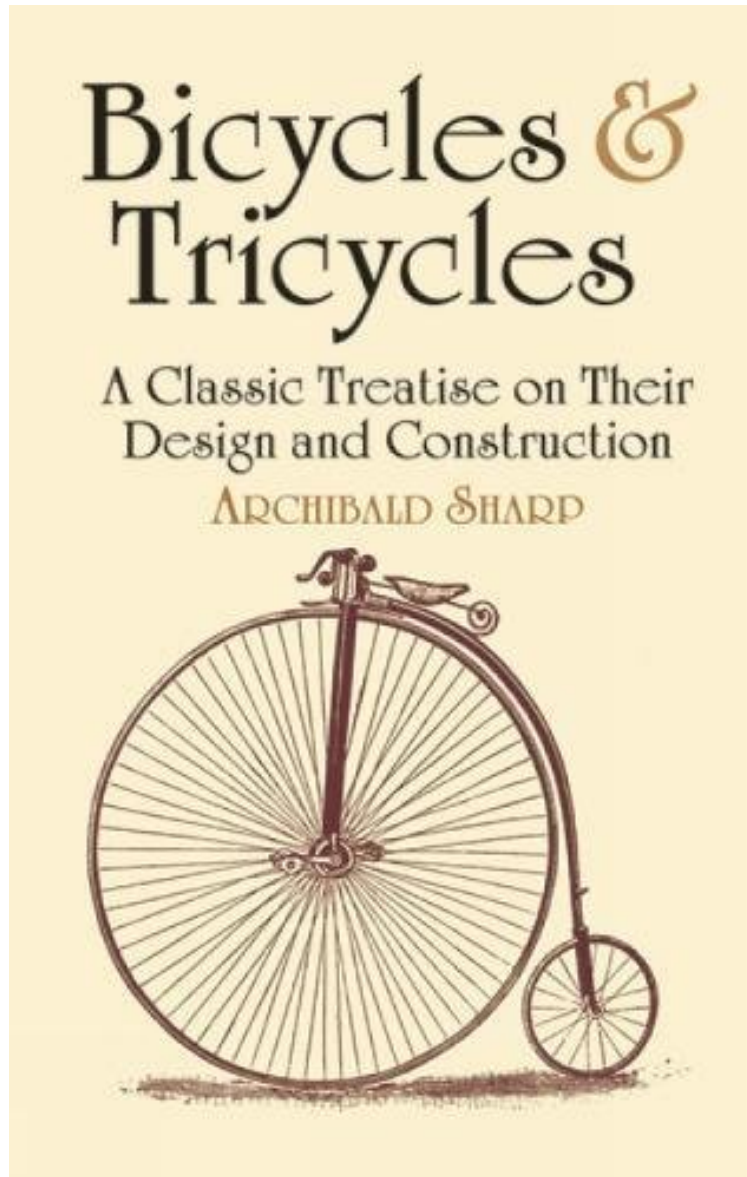


[Download] Bicycles Tricycles: A Classic Treatise on Their Design and Construction (Dover Transportation)

## Bicycles Tricycles: A Classic Treatise on Their Design and Construction (Dover Transportation)

*Archibald Sharp*

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**Archibald Sharp : Bicycles Tricycles: A Classic Treatise on Their Design and Construction (Dover Transportation)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Bicycles Tricycles: A Classic Treatise on Their Design and Construction (Dover Transportation):

9 of 10 people found the following review helpful. Wow - I never expected....By Mark A. Lucas Honestly, I have

studied some of the older bikes, like highwheelers and the safeties and even the racing frames used by 6-day racers like Major (Marshall) Taylor... and I honestly thought most of the early bikes were designed by luck and a prayer. Sharp shows how much engineering knowledge was known about bicycles at the early parts of the 20th century. No wonder bikes were the precursors to --the automobile, --the airplane, --Harleys! Concerns about bottom-bracket flex, weight distribution, climbing efficiency, transmission systems, steering control, comfort, stability at speed, etc. are all covered. Various materials and their pros and cons are covered (but back then exotic materials were bamboo and heat treated rolled steel!). If you are an engineer or have a good background in math, you will be entertained by the incredible amounts of analysis presented in the text. If you are just a techie bike geek like me you will still enjoy it without breaking out the calculator to verify the formulae. There are lots of 'pretty pictures' and well explained concepts to inform and entertain anyone interested in the fundamental engineering principles and concerns of bicycles. 1 of 1 people found the following review helpful. A classic read on the science of bicycle design... By Joshua Harney Anyone interested in understanding how and why a bicycle works the way it does should read this. 2 of 2 people found the following review helpful. Want a new idea? Read an old book! By Dash This is a good place to start if you are interested in bicycle design/ building, or have an idea for a "new" frame that you want to build. It may save you from making an ancient wrong turn. Then again, if you want to re-create an antique bike plenty of info. here to start. Basically, if it's not in this book, you really don't need it.

Up until the publication of this book in 1896, no comparable work existed on the science, design, and mechanics of the bicycle — an invention that revolutionized transportation for the average person and had far-reaching social and economic consequences. While other books on the bicycle have been written since, this late-19th-century classic remains unsurpassed in the thorough, accurate, and highly accessible coverage of every aspect of bicycle design and construction. Over 560 illustrations, diagrams, figures, and tables complement an exhaustive examination of such topics as the development of cycles, kinematics, stability, steering, the frame, gears, stresses, mechanical components, and much more. A marvel of scientific exposition for its time, this fascinating treatise will attract a wide audience of readers interested in technology and invention as well as serious and competitive cyclists, bicycle designers, and collectors.