

The First Bicycles

The very first bicycles had no pedals at all. People made them go by pushing along the ground with their feet. A Frenchman called de Sivrac made the first recognized bicycle (also around 1790). His bicycle looked like a rocking horse with wheels instead of rocks.

Nearly 50 years later, in Germany, Karl von Drais made a machine that looked much more like the bicycle we know. It had a front wheel that could be turned for steering (although Sivrac's could too), but it still had to be pushed along with the feet. This machine was called the *draisienne*, or *hobbyhorse*, or *velocipede*, and it was quite popular in France and England for a few years.

Pedals on the hobbyhorse

One of the first people to put pedals on a hobbyhorse was a Scottish blacksmith called Kirkpatrick Macmillan. Around 1840, he made a bicycle which also worked by pushing pedals backwards and forwards. Macmillan used a chain, but no one else seemed very interested at the time.

The bicycle industry begins

The bicycle industry really began 20 years later when two American put pedals and pedals on the front wheel of a hobbyhorse. The new machine seemed a lot of fun, and the two men, Pierre Michaux and his son Ernest, became well established as bicycle manufacturers.

Unfortunately, Pierre's business abilities did not match his mechanical skills. By 1870 he had sold his business to the Olivers, brothers who were continuing to make and sell bicycles under his main name (which he had agreed not to do). The pair said that his business had gone down financially and mentally and he died in 1880.

The craze for hobbyhorses

People became wildly enthusiastic about hobbyhorses when it was introduced to Paris in 1817.

There is always someone who is ready to make fun of a new craze. George Leitch, who was a well-known cartoonist of the time, was making fun of hobbyhorses when he drew these pictures. The drawings show a type of hobbyhorse in each week's issue.

1. The Michaux pedal bicycle. Pierre Michaux was inspiring a revolution for someone when he thought of putting pedals on the front wheel to make it easier to ride. His son Ernest did this and found that it worked, so they started making pedal bicycles for sale.

2. A hubcap. The rider can put his feet up when standing there safely. This is necessary because the pedals always go round.

3. The saddle is weighted underneath, so that the rider stays in the right way up.

4. Brakes, which is worked by twisting the handlebars.

5. Chain cable, attached to the front gear and and the handlebars at the other.

6. Wheel to turn the rider get in and out.

7. Chain, joining pedal to wheel.

8. The Michaux bicycle is shown in a way which would show how the Michaux's original machine. The handle bars are "Michaux's" a handle to move from the one wheel to the other.

Michaux was to stop the rider's wheel getting round in a long period.

Chain cable is worked by twisting the handlebars.

Michaux was to stop the rider's wheel getting round in a long period.

The feet were only used to keep the rider in the right way up when standing there safely.

The rider could not move with a wheel and a handlebar of the riding.

9. Kirkpatrick Macmillan's pedal bicycle. Macmillan had worked out before his father how to make a bicycle - a bicycle of 10 wheels - in other two wheels. It was probably made from iron, because the people had to be pushed backwards and forwards at the time. But Macmillan was used to pushing an ordinary machine along with his feet, so he probably did not notice.

Macmillan was also the first person to be convicted of a road offence. He knocked down a child with his bicycle and was fined for it.

Wheels and spokes made of wood.

Chain, which kept the rider in the right way up.



The Invention Of Bicycles Motorcycles

Steven E. Alford, Suzanne Ferriss



The Invention Of Bicycles Motorcycles:

The Invention of Bicycles & Motorcycles Derek Roberts, Gordon C. Davies, 1975 **An Alternative History of Bicycles and Motorcycles** Steven E. Alford, Suzanne Ferriss, 2016

An Alternative History of Bicycles and Motorcycles Two Wheeled Transportation and Material Culture accounts for the nineteenth century creation and development of two wheeled vehicles both human powered and motorized Specifically the book focuses on the period from 1885 which saw the appearance simultaneously of the Safety bicycle and the Einspur the first motorcycle to 1920 while exploring implications for later bicycling and motorcycling We argue that invention of these vehicles rather than the product of gifted individuals should be seen as the consequence of a number of historical economic cultural and political forces that intersect so unpredictably that the notion of a genius inventor is reductive The common evolutionary model of development from the bicycle to the motorcycle oversimplifies both the technology and its origins Stripping the vehicles of all their material and cultural associations such a model fails to advance our understanding of the devices their creators and their riders Taking a contemporary vehicle and tracing its lineage creates a false sense of evolutionary necessity in its creation and fails to account for the many possible developmental paths that were for whatever reason abandoned By contrast our book adopts a material culture approach a form of inquiry that stresses the connections between artifacts and social relations We consider not simply the bicycle and motorcycle as material objects but focus also on the complex socio political and economic convergences that produced the materials materials that in turn themselves shaped the vehicles appearance function and adoption by riders

An Alternative History of Bicycles and Motorcycles Steven E. Alford, Suzanne Ferriss, 2016-04-06

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Pneumatic Tires, Automobile, Truck, Airplane, Motorcycle, Bicycle Henry Clemens Pearson,1922

Bike Snob BikeSnobNYC,2011-04-29 Equal parts critical manifesto and tender mini memoir about a boy and his bikes from Eben Weiss blogger and author of The Enlightened Cyclist GQ Cycling is exploding in a good way Urbanites everywhere from ironic hipsters to earth conscious commuters are taking to the bike like aquatic mammals to water BikeSnobNYC cycling s most prolific well known hilarious and anonymous blogger brings a fresh and humorous perspective to the most important vehicle to hit personal transportation since the horse Bike Snob treats readers to a laugh out loud rant and rave about the world of bikes and their riders and offers a unique look at the ins and outs of cycling from its history and hallmarks to its wide range of bizarre practitioners Throughout the author lampoons the missteps pretensions and absurdities of bike culture while maintaining a contagious enthusiasm for cycling itself Bike Snob is an essential volume for anyone who knows is or wants to become a cyclist This is a social manual that should be bundled with every bike shipped in America Christian Lander author of Stuff White People Like I like to think I know a thing or two or three about being ruthless and relentless either trying to win the Tour or fighting cancer The Snob knows it too Keeping us dorks in line is tough work I take pleasure in getting picked on by the Snob slightly more pleasure in reading his writing but take the most pleasure punishing his ass my payback on the bike either in Central Park or on 9W River Road Long live the Snob Lance Armstrong

Motor Cycling - A History of the Early Motorcycle John H. Wyatt,2013-01-30 Originally published in 1925 this book is a fascinating history of the early motorcycle This book is a detailed guide packed with photos and diagrams and of much interest to any motorcycle enthusiast Many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive Hesperides Press are republishing these classic works in affordable high quality modern editions using the original text and artwork Contents include Historical and Introductory Early Aspirations Engine Position Pedalling Gear Quads The Choice of a Mount Speed Weight Price New or Second Hand Single or Twin The Prime Mover The Four Stroke Engine The Four Stroke Valve and Ignition etc Carburetion and Ignition Engine Suction Automatic or Two Lever Carburettors Reliability of Magnetos Frame Design and Cycle Parts Diamond and Loop Frames Spring Frames and Forks etc Variable Gears and Transmission Two Three or Four Speeds Gear Boxes etc Passenger Machines Trailer Four Car Tri Car Side Car etc Accessories Spares and Tools Lamps Dynamo Lighting Outfits Speedometers etc Driving and Up Keep Starting the Engine Gear Changing etc Troubles on the Road Refusal to Start Choked Petrol Pipe or Jet etc Touring and Reliability Trials Motor Cycling Club Trials Stock Machine Trial Scottish Six Days Ascent of Snowdon Motor Cycle Racing Notable Motor Cycles Motor Cycle Records

A History of Mechanical Engineering Ce Zhang,Jianming Yang,2020-01-03 This book explores the history of mechanical engineering since the Bronze Age Focusing on machinery inventions and the development of mechanical technology it also discusses the machinery industry and modern mechanical education The evolution of machinery is divided into three stages Ancient before the

European Renaissance Modern mainly including the two Industrial Revolutions and Contemporary since the Revolution in Physics especially post Second World War The book not only clarifies the development of mechanical engineering but also reveals the driving forces behind it e g the economy national defense and human scientific research activities to highlight the links between technology and society mechanical engineering and the natural sciences and mechanical engineering and related technological areas Though mainly intended as a textbook or supplemental reading for graduate students the book also offers a unique resource for researchers and engineers in mechanical engineering who wish to broaden their horizons

The Complete History of Wheeled Transportation Britannica Educational Publishing,2011-11-01 While the wheel itself has changed little over time it has immeasurably altered the nature of transportation This insightful volume examines the various wheeled conveyances that have been instrumental in agriculture and commerce carts and wagons for instance as well as those that have facilitated human travel coaches bicycles cars and buses among others Also explored is the evolution of roads as they have expanded to accommodate various modes of wheeled transportation Motorcycle Accident Reconstruction Christopher D Armstrong,2018-11-02 The last ten years have seen explosive growth in the technology available to the collision analyst changing the way reconstruction is practiced in fundamental ways The greatest technological advances for the crash reconstruction community have come in the realms of photogrammetry and digital media analysis The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data create 3D models and visualize and analyze crash vehicles and environments The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction Because of the technological changes occurring in the industry many SAE papers have been written to address the validation and use of new tools for collision reconstruction Collision Reconstruction Methodologies Volumes 1 12 bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field Topics featured in the series include Night Vision Study and Photogrammetry Vehicle Event Data Recorders Motorcycle Heavy Vehicle Bicycle and Pedestrian Accident Reconstruction The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction appealing to crash analysts consultants and safety engineers alike Urban Transportation Systems in Emerging Countries Mihoko Matsuyuki,Fumihiko Nakamura,2025-09-01 This book offers the comprehensive analysis of urban transportation systems in emerging countries across Asia South America and Africa It explores the characteristics challenges and opportunities of transportation modes the integration of ICT innovations modernization of operations and the dynamic interplay between transportation and urban elements This book provides practical approaches to building sustainable transportation systems tailored to the unique contexts of emerging countries Edited and authored by experts with extensive research and practical experience this book is an essential resource for transportation planners engineers urbanist policymakers researchers and

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