



# BICYCLE DESIGN

AN ILLUSTRATED HISTORY

**TONY HADLAND AND HANS-ERHARD LESSING**

*with contributions from Nick Clayton and Gary W. Sanderson*



# Bicycle Design An Illustrated History

**Anthony Crimin, Anthony McGarry**



## **Bicycle Design An Illustrated History:**

*Bicycle Design* Tony Hadland, Hans-Erhard Lessing, 2014-03-28 An authoritative and comprehensive account of the bicycle's two hundred year evolution. The bicycle ranks as one of the most enduring most widely used vehicles in the world with more than a billion produced during almost two hundred years of cycling history. This book offers an authoritative and comprehensive account of the bicycle's technical and historical evolution from the earliest velocipedes invented to fill the need for horseless transport during a shortage of oats to modern racing bikes, mountain bikes and recumbents. It traces the bicycle's development in terms of materials, ergonomics and vehicle physics as carried out by inventors, entrepreneurs and manufacturers. Written by two leading bicycle historians and generously illustrated with historic drawings, designs and photographs. *Bicycle Design* describes the key stages in the evolution of the bicycle beginning with the counterintuitive idea of balancing on two wheels in line through the development of tension spoked wheels, indirect drives employing levers, pulleys, chains and chainwheels and pneumatic tires. The authors examine the further development of the bicycle for such specific purposes as racing, portability and all terrain use and they describe the evolution of bicycle components including seats, transmission, brakes, lights at first candle based and carriers, racks, panniers, saddlebags, child seats and sidecars. They consider not only commercially successful designs but also commercial failures that pointed the way to future technological developments. And they debunk some myths about bicycles for example the mistaken but often cited idea that Leonardo sketched a chain drive bike in his notebooks. Despite the bicycle's long history and mass appeal its technological history has been neglected. This volume with its engaging and wide ranging coverage fills that gap. It will be the starting point for all future histories of the bicycle.

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**Bicycle** Jonathan Maskit,2023-12-28 Object Lessons is a series of short beautifully designed books about the hidden lives of ordinary things These days the bicycle often appears as an interloper in a world constructed for cars An almost miraculous 19th century contraption the bicycle promises to transform our lives and the world we live in yet its time seems always yet to come or long gone by Jonathan Maskit takes us on an interdisciplinary ride to see what makes the bicycle a magical machine that could yet make the world a safer greener and more just place Object Lessons is published in partnership with an essay series in The Atlantic

**Invisible Bicycle**,2018-09-11 The Invisible Bicycle brings together different insights into the social cultural and economic history of the bicycle and cycling in historical eras of ubiquitous bicycle use that have remained relatively invisible in bicycle history It revisits the typical timeline of cycling s decline in the 1950s and 1960s and the renaissance beginning in the 1970s by bringing forth the large national and local variations varying uses and images of the bicycle and different bicycle cultures as well as their historical background and motivations To understand the role possibilities and challenges of the bicycle today it is necessary to know the history that has formed them Therefore The Invisible Bicycle is recommended also to present day practitioners and planners of bicycle mobility Contributors are Peter Cox Martin Emanuel Tiina M nnist Funk Timo Myllyntaus Nicholas Oddy Harry Oosterhuis William Steele Manuel Stoffers Sue Yen Tjong Tjin Tai Frank Veraart

*Cycling and Recycling* Ruth Oldenziel,Helmuth Trischler,2015-12-01 Technology has long been an essential consideration in public discussions of the environment with the focus overwhelmingly on creating new tools and techniques In more recent years however activists researchers and policymakers have increasingly turned to mobilizing older technologies in their pursuit of sustainability In fascinating case studies ranging from the Early Modern secondhand trade to utopian visions of human powered vehicles the contributions gathered here explore the historical fortunes of two such technologies bicycling and waste recycling tracing their development over time and providing valuable context for the policy successes and failures of today

Bike Battles James Longhurst,2015-04-15 Americans have been riding bikes for more than a century now So why are most American cities still so ill prepared to handle cyclists James Longhurst a historian and avid cyclist tackles that question by tracing the contentious debates between American bike riders motorists and pedestrians over the shared road Bike Battles explores the different ways that Americans have thought about the bicycle through popular songs merit badge pamphlets advertising films newspapers and sitcoms Those associations shaped the actions of government and the courts when they intervened in bike policy through lawsuits traffic control road building taxation rationing import tariffs safety education and bike lanes from the 1870s to the 1970s Today cycling in American urban centers remains a challenge as city

planners political pundits and residents continue to argue over bike lanes bike share programs law enforcement sustainability and public safety Combining fascinating new research from a wide range of sources with a true passion for the topic Longhurst shows us that these battles are nothing new in fact they re simply a continuation of the original battle over who is and isn t welcome on our roads Watch the trailer <https://www.youtube.com/watch?v=WNleJ0tDvqg>

**Bicycle Biomechanics** Anthony Crimin,Anthony McGarry,2025-03-13 This book is not just for professional cyclists who look to improve their performance on the bicycle The bicycle is also used in a variety of activities by enthusiasts in commuting club riding and long distance solo adventures By gaining a deeper understanding of the human factors and physiology cyclists can self coach to improve their cycling with improved comfort and speed However it is often the perception of the cycling enthusiast that the latest frame and component technology play a significant role in rider performance While this may be true for the professional rider it is because they are biomechanically fitted to their machine Hence the purpose of this book is to look beyond the tradition and myth of bicycle setup to help the motivated everyday rider gain a practical understating of the factors that influence their performance This can be achieved in combination with web based application tools If the reader wishes to go further the book demonstrates a method to build their own power dynamometer to gain an objective measure of their forces kinetics of motion Essentially by gaining knowledge of cycling biomechanics and measuring and evaluate their own performance the reader may become their own coach

Cycling ,2022-07-22 This volume addresses key contemporary aspects in cycling policy practice and research Cycling has seen a sharp increase in scientific and policy attention in the past decade The amount of research has surged over the past couple decades Also levels of cycling have increased substantially in many countries and cities and many areas have seen increases in infrastructure investments In addition the last decade has seen innovations in bicycle technology in particularly the rise of electric assist e bikes and dock less bike sharing schemes This volume reviews the state of the art on cycling from various angles As such it explores planners engineers policy makers provisions for cycling of cyclists and non cyclists travel behaviour and resulting consequences for individuals and society One focus is on demand side aspects including the use of bicycles and their users including patterns and trends in cycling determinants of cycling and modelling of cycling Another focus is on impacts of cycling such as emissions safety aspects as well as changes during the COVID pandemic Contemporary overview of key aspects in cycling research and bicycle planning A focus on design for cycling behavior of cyclists and consequences of cycling

**Early American Bicycle Works** Robert L. McCullough,2025-04-12 Few inventions rival the bicycle s global reach Even fewer have maintained their fundamental design for more than 130 years a feat achieved by the true safety bicycle after 1890 With two equal sized wheels a diamond frame rear wheel chain drive and pneumatic tires its design is globally recognizable Despite its cultural significance the bicycle remains inadequately represented in our built and cultural environments This book explores the history of the early American bicycle industry It examines factory complexes worker housing and urban plans that go back to America s seminal period of

bicycle manufacturing which began in 1878 with the production of elegant high wheel models By studying the architecture engineering and inventions of bicycle design and manufacture this research sheds light on various aspects of the industry during its early years and contributes to the preservation of cycling s nineteenth century heritage within our built environment

*Two Wheels Good* Jody Rosen, 2023-06-13 A panoramic revisionist portrait of the nineteenth century invention that is transforming the twenty first century world Excellent calls to mind Bill Bryson John McPhee Rebecca Solnit The New York Times Book Review Editors Choice ONE OF THE BEST BOOKS OF THE YEAR The New Yorker The bicycle is a vestige of the Victorian era seemingly at odds with our age of smartphones and ride sharing apps and driverless cars Yet we live on a bicycle planet Across the world more people travel by bicycle than any other form of transportation Almost anyone can learn to ride a bike and nearly everyone does In *Two Wheels Good* journalist and critic Jody Rosen reshapes our understanding of this ubiquitous machine an ever present force in humanity s life and dream life and a flash point in culture wars for more than two hundred years Combining history reportage travelogue and memoir Rosen s book sweeps across centuries and around the globe unfolding the bicycle s saga from its invention in 1817 to its present day renaissance as a green machine an emblem of sustainability in a world afflicted by pandemic and climate change Readers meet unforgettable characters feminist rebels who steered bikes to the barricades in the 1890s a prospector who pedaled across the frozen Yukon to join the Klondike gold rush a Bhutanese king who races mountain bikes in the Himalayas a cycle rickshaw driver who navigates the seething streets of the world s fastest growing megacity astronauts who ride a floating bicycle in zero gravity aboard the International Space Station *Two Wheels Good* examines the bicycle s past and peers into its future challenging myths and clich s while uncovering cycling s connection to colonial conquest and the gentrification of cities But the book is also a love letter a reflection on the sensual and spiritual pleasures of bike riding and an ode to an engineering marvel a wondrous vehicle whose passenger is also its engine

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