

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 bicycles 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 bicycles 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 bicycles 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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