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This latest edition and successor to the well-known German language handbook last published by Professors Heinrich Buschmann and Paul Koessler is widely considered to be one of the most comprehensive encyclopedias of vehicle systems and design. Featuring more extensive coverage than other comparable publications, it contains: information on automotive design and applications, Over 40 subject matter experts focusing on specific automotive topics , Information on powertrains, electronics, vehicle safety and future materials, Extensive figures, drawings, illustrations and formulas.

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This book covers one and a quarter century of the automobile, conceived as a cultural history of its technology, aimed at engineering students and all those who wish to have a concise introduction into the basics of automotive technology and its long-term development. Its approach is systemic and includes the behaviour of drivers, producers, nonusers, victims, and other "stakeholders" as well as the discourse around mobility. Nowadays, students of innovation prefer the term co-evolution, emphasizing the parallel and mutually dependent development of technology and society. This acknowledges the importance of contingency and of the impact of the past upon the present, the very reason why The Evolution of Automotive Technology: A Handbook looks at car technology from a long-term perspective. Often we will conclude that the innovation was in the (re)arrangement of existing technologies. Since its beginnings, car manufacturers have brought a total of 1 billion automobiles to the market. We are currently witnessing an explosion toward the second billion. Looking back, we can see this history evolve through five distinctive phases: Emergence (1880-1917) Persistence (1917-1940) Exuberance (1945-1973) Doom (1973-2000) Confusion (2001-present) The Evolution of Automotive Technology: A Handbook helps us understand how these phases impacted society and, in turn, shows us how car technology was influenced by car users themselves.

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