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The Motor Car: Past, Present and Future (Paperback)

By Giancarlo Genta, Francesco Cavallino, Luigi Filtri

Springer, Netherlands, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book is an introduction to automotive engineering, to give freshmen ideas about this technology. The text is subdivided in parts that cover all facets of the automobile, including legal and economic aspects related to industry and products, product configuration and fabrication processes, historic evolution and future developments. The first part describes how motor vehicles were invented and evolved into the present product in more than 100 years of development. The purpose is not only to supply an historical perspective, but also to introduce and discuss the many solutions that were applied (and could be applied again) to solve the same basic problems of vehicle engineering. This part also briefly describes the evolution of automotive technologies and market, including production and development processes. The second part deals with the description and function analysis of all car subsystems, such as: * vehicle body, * chassis, including wheels, suspensions, brakes and steering mechanisms, * diesel and gasoline engines, * electric motors, batteries, fuel cells, hybrid propulsion systems, * driveline, including manual and automatic gearboxes. This part addresses also many non-technical issues that influence vehicle design and production, such as social and economic impact of...



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