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part of the basic automotive series automotive electrical and electronic systems can be used in any introductory course in automotive electronics and electricity the text opens with up to date coverage of electricity magnetism and semi conductors topics that follow include starting systems lighting systems power accessories and the latest electronic systems including speed controls and new to this edition automotive micro computers also new to this text are ignition and passive restraint systems the accompanying shop manual provides detailed coverage of specific repairs and service techniques using step by step procedures the text and its correlated shop manual help prepare students for automotive service excellence ase certification it also provides end of chapter questions that use a format similar to the ase tests the contents of both volumes are based on the competencies and standards set by the national institute for automotive service excellence

includes index

the eight chek chart series books directly correlate to the ase testing areas for certified automotive mechanics the entire series is job oriented especially designed for students who intend to work in the automotive service profession a student will be able to use the knowledge gained from these books and from the instructor to get and keep a job in automotive repair or maintenance learning the material and techniques in these volumes is a giant leap toward a satisfying rewarding career

this second edition is updated and streamlined to make learning electrical and electronic systems easy at the request of service technicians and instructors from throughout the united states and canada information on computer sensors high intensity discharge hid headlights antilock brakes obd II and digital meter usage have been included a sample ase style test is included in the appendix

3rd edition as a result of rapid technological developments the use of electronic equipment in vehicles has increased immensely this book covers a wide variety of electric electronic systems and components ranging from alternators and starting systems to safety systems theft deterrence and navigation systems automotive electrics and electronics provides comprehensive easy to understand descriptions as well as numerous charts drawings and

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