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Sommario/riassunto	Batteries charge discharge ultra capacitors flywheels hybrid energy storage fuel cells auxiliary power SoC and SoH solar vehicles Converters rectifiers inverters motor drives power semiconductors EMI EMC generators integrated starter alternators drive trains electro magnetic compatibility power architectures 42V PowerNet X by wire electric power steering hydraulic powertrain Active suspension cruise controls remote sensing wireless sensors vehicular networking cooperative driving intelligent & autonomous vehicles active & passive safety embedded operation driver assistance virtual digital Power split fault tolerance energy management driving pattern recognition driver modelling shifting control Vehicular systems components CAD CAE virtual prototyping driving cycle design ecodriving life cycle analysis EV infrastructure V2X on board chargers AC & DC infrastructure fast, superfast, wireless, smart & conductive charging Smart Grid.