SUBJECT INDEX

Accumulators Ni-Cd, plastic-bonded electrodes for. I. Cd electrode, 227 **II.** Basic electrochemical parameters of Ni oxide electrode, 239 III. Influence of active layer composition on galvanostatic and potentiostatic discharge curves, 349 Acid electrolytes methanol-air fuel cell: selective review of methanol oxidation mechanisms at Pt electrodes in, 191 Active layer composition influence of, on galvanostatic and potentiostatic discharge curves: plastic-bonded electrodes for Ni-Cd accumulators, 349 Ageing behaviour of cast Pb-Sb battery grids, 53 Air Zn-, primary cell, cylindrical R-20 size, 91 Alpha-phase stabilization in Ag and Cu halide solid electrolytes, 165 Antimony ageing behaviour of cast Pb-Sb battery grids, 53 Battery(ies) grade, highly hydrated, Mn dioxide powder, electrical characteristics of, 77 grids, cast Pb-Sb, ageing behaviour of, 53 Li-thionyl chloride: review, 1 metal-air, status and potential: a review, 263 Na-S, current trends in development of, 301 Pb-acid, electrodes, study of structural factors of, 43 for remote photovoltaic applications, 327 primary and secondary, performance limits of, 215

tion polarization, 145 technologies, new, and their potential impact in use of energy in telephone industry, 291 **Battery** systems for electric vehicles: state-of-the-art review, 101 Brenet J. P., retirement of, 181 Cadmium plastic-bonded electrodes for Ni-Cd accumulators. I. Cd electrodes, 227 **II. Basic electrochemical parameters** of Ni oxide electrode, 239 III. Influence of active layer composition on galvanostatic and potentiostatic discharge curves, 349 Carbide W, effect of method of preparation on catalytic activity of, 65 Catalytic activity of W carbide, effect of method of preparation on, 65 Cell(s) electrolyte, solid, Ag iodide-based, comments on discharge mechanism of, 169 fuel, rechargeable battery, theory of stabilization of output power of, under conditions of significant concentration polarization, 145 methanol-air fuel: selective review of methanol oxidation mechanisms at Pt electrodes in acid electrolytes, 191 Na-S, behavior of, with a dynamic S electrode, 33 Pb-acid, cylindrical, pure Pb, for float service, 309 primary, Zn-air, cylindrical R-20 size, 91

rechargeable fuel cell, theory of stabili-

zation of output power of, under

conditions of significant concentra-

366

Cell designs analyzing, by computer, for optimum performance: technical note, 321 Chloride Li-thionyl, battery: review, 1 **Concentration** polarization significant, theory of stabilization of output power of rechargeable fuel cell battery under conditions of, 145 Conductivity influence of fine materials on thickness and, of Mn dioxide powder under pressure: technical note, 281 **Conductivity measurements** on pure and mixed metal dioxides, 203 Copper halide Ag and, solid electrolytes, alphaphase stabilization in, 165 Dioxides metal, pure and mixed, conductivity measurements on, 203 Dioxide powder Mn, influence of fine materials on thickness and conductivity of. under pressure: technical note, 281 Pb, magnetoresistance of, 171 **Discharge curves** galvanostatic and potentiostatic, influence of active layer composition on: plastic-bonded electrodes for Ni-Cd accumulators, 349 Discharge mechanism of Ag iodide-based solid electrolyte cells, comments on, 169 **Electric vehicles** battery systems for; state-of-the-art review, 101 **Electrical characteristics** of a highly hydrated battery grade Mn dioxide powder, 77 **Electrochemical behaviour** of metallic oxides, 183 **Electrochemical energy sources** advanced, for space power systems: review, 11 **Electrochemical parameters** basic, of Ni oxide electrode: plasticbonded electrodes for Ni-Cd accumulators, 239 Electrode(s) dynamic S, behavior of a Na-S cell with. 33

Pb-acid battery, study of structural factors of, 43 Pb, porous, oxidation of, in sulphuric acid solutions, 21 plastic-bonded, for Ni-Cd accumulators. I. Cd electrode, 227 **II.** Basic electrochemical parameters of Ni oxide electrode, 239 III. Influence of active layer composition on galvanostatic and potentiostatic discharge curves, 349 Pt. methanol-air fuel cell: selective review of methanol oxidation mechanisms at, in acid electrolytes, 191 Electrolyte(s) acid, methanol-air fuel cell: selective review of methanol oxidation mechanisms at Pt electrodes in, 191 solid, Ag and Cu halide, alpha-phase stabilization in, 165 Electrolyte cells solid, Ag iodide-based, comments on discharge mechanism of, 169 Energy new battery technologies and their potential impact in use of, in telephone industry, 291 **Energy** sources electrochemical, advanced, for space power systems: review, 11 Float service cylindrical, pure Pb, Pb-acid cell for, 309 Fuel cell methanol-air: selective review of methanol oxidation mechanisms at Pt electrodes in acid electrolytes, 191 Fuel cell battery rechargeable, theory of stabilization of output power of, under conditions of significant concentration polarization, 145 Galvanostatic discharge curves potentiostatic and, influence of active

potentiostatic and, influence of active layer composition on: plastic-bonded electrodes for Ni-Cd accumulators, 349

Grids

battery, cast Pb-Sb, ageing behaviour of, 53

Halide Ag and Cu, solid electrolytes, alphaphase stabilization in, 165 Iodide-based solid electrolyte cells Ag, comments on discharge mechanism of, 169 Lead ageing behaviour of cast Pb-Sb battery grids, 53 pure, cylindrical Pb-acid cell for float service, 309 Lead-acid batteries for remote photovoltaic applications, 327 Lead-acid battery electrodes study of structural factors of, 43 Lead-acid cell cylindrical, pure Pb, for float service, 309 Lead dioxide powder magnetoresistance of, 171 Lead electrodes porous, oxidation of, in sulphuric acid solutions, 21 Lithium -thionyl chloride battery: review, 1 Magnetoresistance of Pb dioxide powder, 171 Manganese dioxide powder highly hydrated battery grade, electrical characteristics of, 77 influence of fine materials on thickness and conductivity of, under pressure: technical note, 281 Metal-air batteries status and potential: review, 263 Metal dioxides pure and mixed, conductivity measurements on, 203 Metallic oxides electrochemical behaviour of, 183 Methanol-air fuel cell selective review of methanol oxidation mechanisms at Pt electrodes in acid electrolytes, 191 Mixed metal dioxides conductivity measurements on pure and, 203 Nickel

plastic-bonded electrodes for Ni–Cd accumulators. I. Cd electrode, 227

II. Basic electrochemical parameters of Ni oxide electrode, 239 III. Influence of active layer composition on galvanostatic and potentiostatic discharge curves, 349 Output power of rechargeable fuel cell battery under conditions of significant concentration polarization, theory of stabilization of, 145 Oxidation of porous Pb electrodes in sulphuric acid solutions, 21 **Oxidation mechanisms** methanol; methanol-air fuel cell: selective review of, at Pt electrodes in acid electrolytes, 191 Oxide(s) metallic, electrochemical behaviour of, 183 Ni, electrode, basic electrochemical parameters of; plastic-bonded electrodes for Ni-Cd accumulators, 239 **Performance limits** of primary and secondary batteries, 215Photovoltaic applications remote, Pb-acid batteries for, 327 Photovoltaic power

for telecommunications, 337 **Plastic-bonded electrodes** for Ni-Cd accumulators. I. Cd electrode, 227 II. Basic electrochemical parameters of Ni oxide electrode, 239 III. Influence of active layer composition on galvanostatic and potentiostatic discharge curves, 349 Platinum electrodes methanol-air fuel cell: selective review of methanol oxidation mechanisms at, in acid electrolytes, 191 Polarization significant concentration, theory of stabilization of output power of rechargeable fuel cell battery under conditions of, 145 Potentiostatic discharge curves influence of active layer composition on galvanostatic and: plastic-bonded electrodes for Ni-Cd accumulators,

349

output, of rechargeable fuel cell battery under conditions of significant concentration polarization, theory of stabilization of, 145

Power systems

space, advanced electrochemical energy sources for; review, 11

Primary batteries and secondary, performance limits

of, 215

Retirement of Brenet, J. P., 181

Secondary batteries performance limits of primary and, 215 Silver halide and Cu halide solid electrolytes, alphaphase stabilization in, 165 Silver iodide -based solid electrolyte cells, comments on discharge mechanism of, 169

Sodium current trends in development of Na-S batteries, 301 Sodium-sulfur cell with a dynamic sulfur electrode, behavior of, 33 Space power systems advanced electrochemical energy sources for: review, 11 Stabilization alpha-phase, in Ag and Cu halide solid electrolytes, 165 of output power of rechargeable fuel cell battery under conditions of significant concentration polarization, theory of, 145 Structural factors of Pb-acid battery electrodes, study of, 43 Sulfur behavior of a Na-S cell with a dynamic S electrode, 33 current trends in development of Na-S batteries, 301 Sulfuric acid solutions oxidation of porous Pb electrodes in, 21

Technologies
battery, new, and their potential impact in use of energy in telephone industry, 291
Telecommunications

photovoltaic power for, 337

Telephone industry

new battery technologies and their potential impact in use of energy in, 291

Thionyl chloride battery

Li-: review, 1

Tungsten carbide

effect of method of preparation on catalytic activity of, 65

Vehicles electric, battery systems for; state-ofthe-art review, 101

Zinc

cylindrical R-20 size Zn-air primary cell, 91

Power