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| Nota di contenuto | Pulsed power generators -- Recent Trends in dielectric materials -- High current and high energy capacitor banks -- Upcoming topologies & control schemes in power modules -- Neutron and X-ray generators -- Electron beam accelerators and applications -- Rail and coil gun technology. |
| Sommario/riassunto | This book presents select proceedings of the conference on "High Voltage-Energy Storage Capacitors and Applications (HV-ESCA 2023)" that was jointly organized by Beam Technology Development Group (BTDG) and Electronics & Instrumentation Group (E&IG), BARC at DAE Convention Centre, Anushakti Nagar from 22nd to 24th June 2023. The book includes papers on topics, such as energy storage technologies (capacitor & battery), HV insulation & dielectric material, electromagnetic accelerators (rail and coil gun), electron beam accelerators, generation of fast rising voltage pulses, topologies & control schemes in power modules, pulsed nuclear radiation generators, electromagnetic welding, EMI & EMC, HV transmission lines, insulation material, and plasma generators. Papers included in this |

book impart better understanding of phenomena and intricacies of high voltage-energy storage capacitors and its applications to practicing engineers and researchers and update the latest information on interdisciplinary trending techniques. The book can be a valuable reference for beginners, researchers, and professionals interested in energy storage, pulsed power, and allied fields.
