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The search for clean, renewable energy sources has yielded enormous growth and new developments in these technologies in a few short years, driving down costs and encouraging utilities in many nations, both developed and developing, to add and expand wind and solar power capacity. The first, best-selling edition of Wind and Solar Power Systems provided the most complete and modern treatment of renewable energy. This second edition continues the tradition by offering updated and expanded coverage of this growing field. The book begins with individual sections devoted to wind power and solar photovoltaic technologies, their engineering fundamentals, conversion characteristics, operational considerations to maximize output, and emerging trends. The discussion of wind power includes the theory of induction machine performance and operation as well as generator speed control, while the solar PV section includes array design, environmental variables, and sun-tracking methods. This edition includes two chapters devoted to new and specialized technologies. The third section explores large-scale energy storage technologies, overall electrical system performance, and total plant economy while the final section explores ancillary power systems derived from the sun.