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Nota di contenuto	Energy usage in the United States and the world -- Fundamentals of turbomachinery -- Hydropower -- Wind energy -- Combustion turbines -- Solar energy fundamentals -- Active solar thermal applications -- Passive solar energy -- Photovoltaic systems -- Fuel cells -- Combined heat and power (CHP) systems -- Biomass -- Geothermal energy -- Ocean energy -- Nuclear energy -- Transportation and hybrid and electric vehicles -- Hydraulic fracturing, oil, natural gas, and the new reality.