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Nota di contenuto	2.2 NUMERICAL WEATHER PREDICTION MODELS2.3 PERSISTENCE MODELS; 2.4 CHOOSING FORECAST PARAMETERS; 2.5 STATISTICAL AND NEURAL NETWORK METHODS; 2.6 ADAPTIVE NEURO-FUZZY INFERENCE SYSTEMS; 2.7 CASE STUDY; REFERENCES; 3 MAXIMIZING THE LOADING IN WIND TURBINE PLANTS: (A) THE BETZ LIMIT, (B) DUCTING THE TURBINE; 3.1 THE WIND TURBINE EFFICIENCY; 3.2 THE BETZ LIMIT; 3.3 THE DUCTED WIND TURBINE; REFERENCES; 4 MODELING WIND TURBINE WAKES FOR WIND FARMS; 4.1 INTRODUCTION; 4.2 EMPIRICAL METHODS TO ESTIMATE WAKE RECOVERY; 4.3 COMPUTATIONAL FLUID DYNAMICS; 4.4 ROTOR MODELING TECHNIQUES 7.6 ENVIRONMENTAL IMPACT7.7 CONCLUSIONS; 7.8 MARINE ENERGY2; NOTE; REFERENCES; 8 IMPACTS OF WIND FARMS ON WEATHER AND CLIMATE AT LOCAL AND GLOBAL SCALES; 8.1 OBSERVED IMPACTS; 8.2 HOW WIND TURBINES INTERACT WITH THE ATMOSPHERE; 8.3 HOW WIND FARMS ARE REPRESENTED IN WEATHER AND CLIMATE MODELS; 8.4 IMPACTS OF WIND FARMS ON LOCAL METEOROLOGY; 8.5 IMPACTS OF WIND FARMS ON REGIONAL AND GLOBAL CLIMATE; 8.6 MINIMIZING IMPACTS; 8.7 CONCLUSIONS AND DISCUSSIONS; REFERENCES; 9 POWER CURVES AND TURBULENT FLOW CHARACTERISTICS OF VERTICAL AXIS