

Solar Magnetic Suspension

Wind Power Generation System

Control Engineering Laboratory

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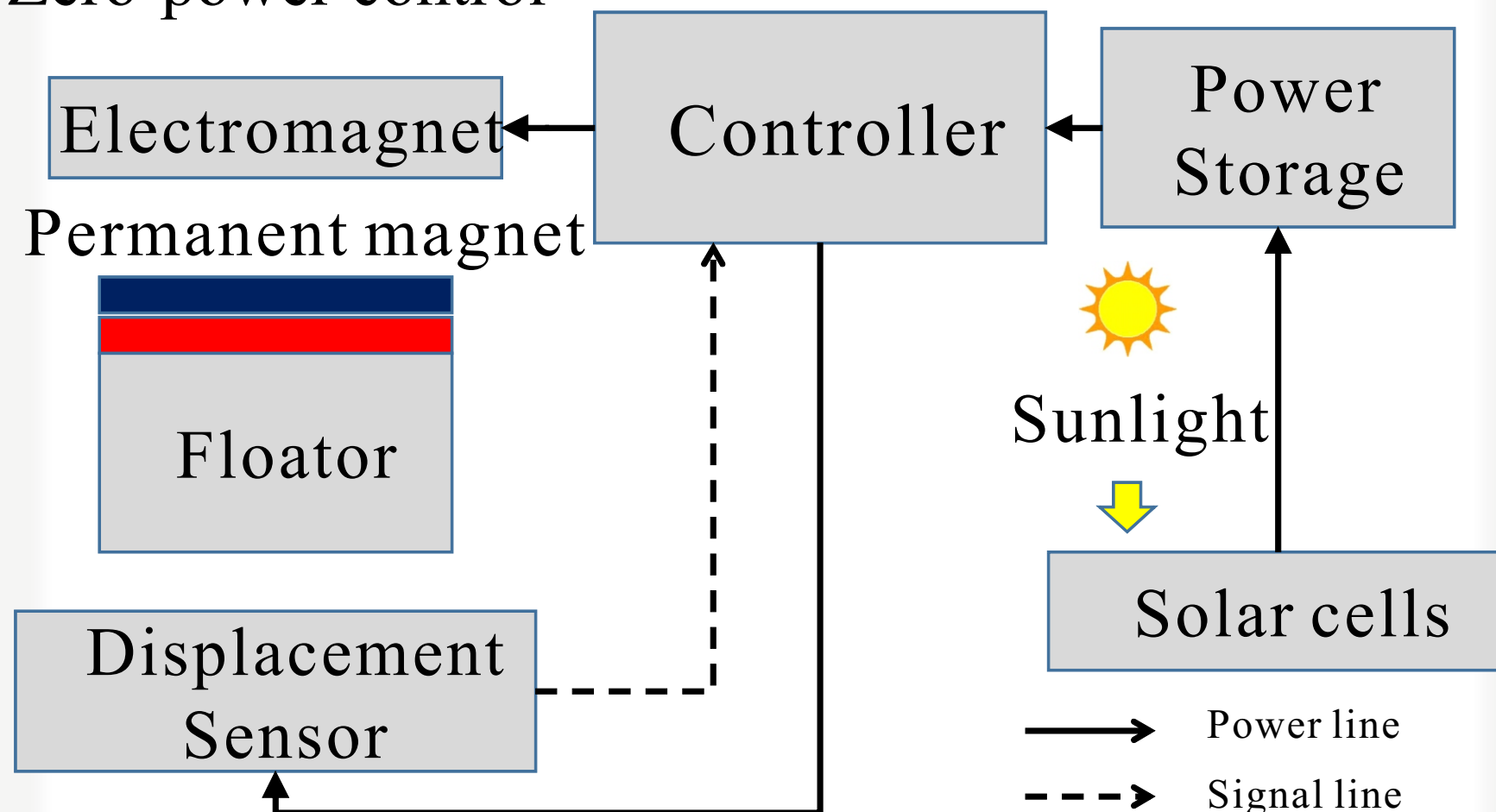
Solar Magnetic Suspension



Solar generation + Magnetic suspension

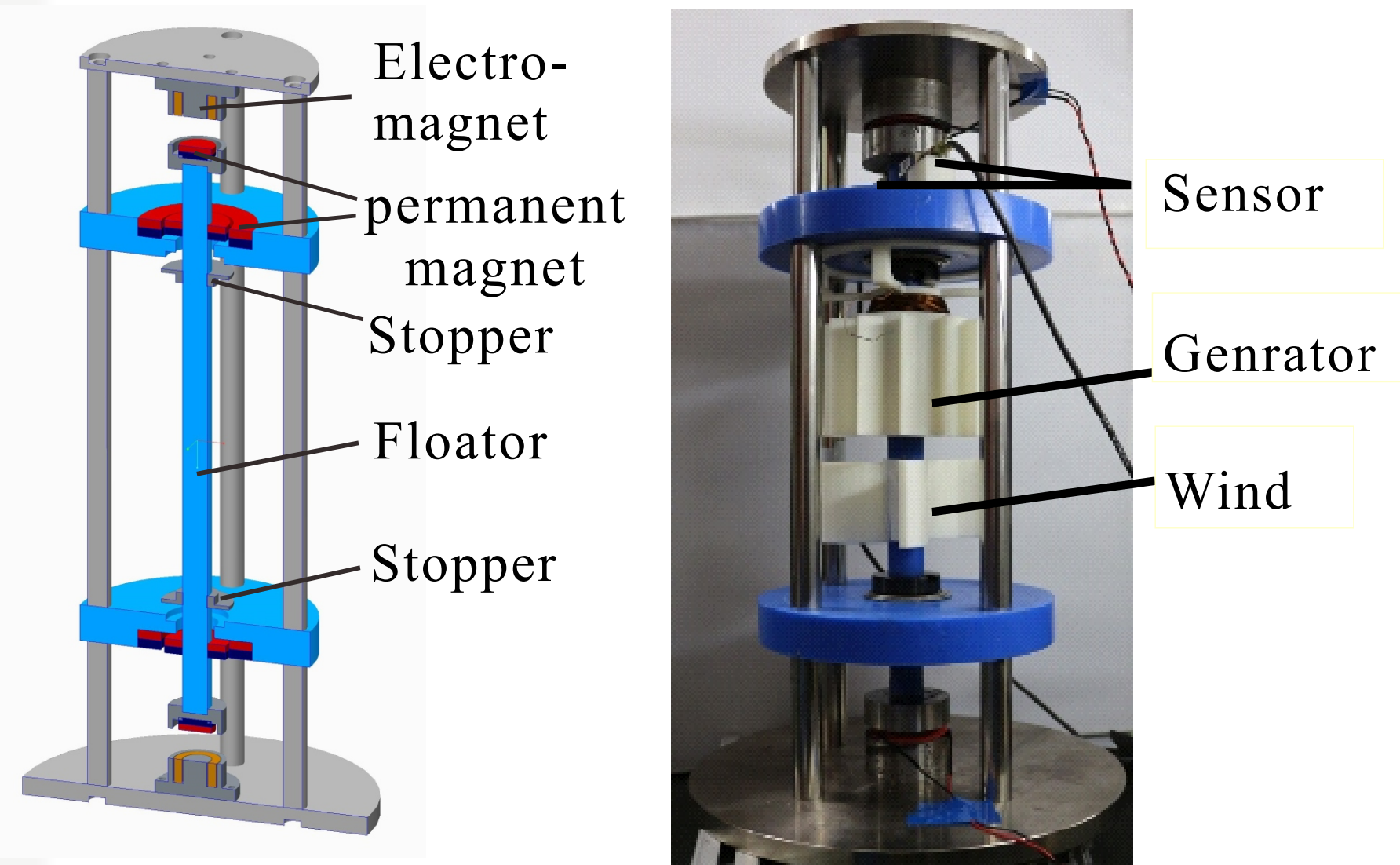
Magnetic suspension can be achieved Only by the power from solar

Zero-power control



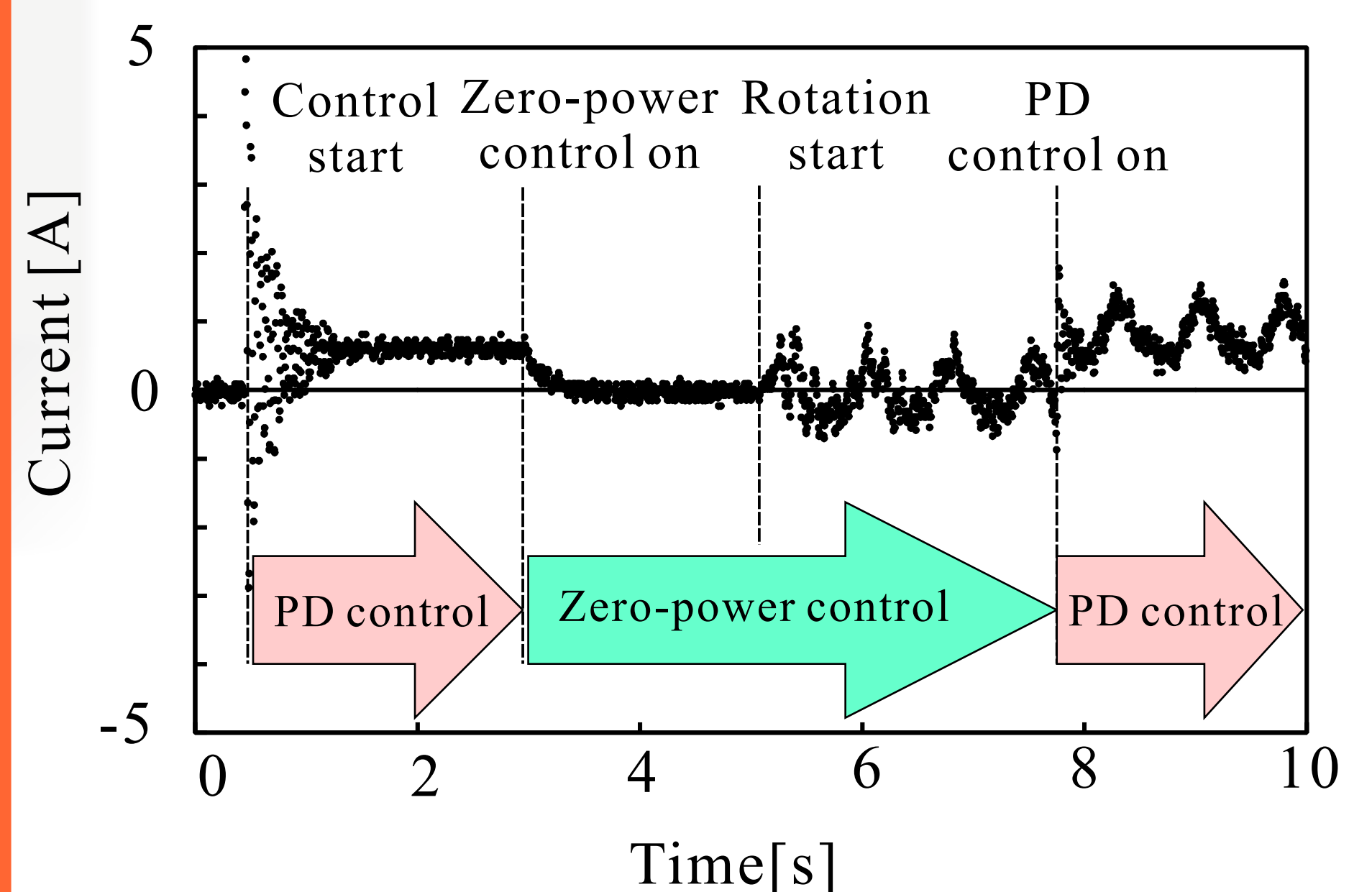
Experiment Apparatus

Wind power generator using magnetic suspension

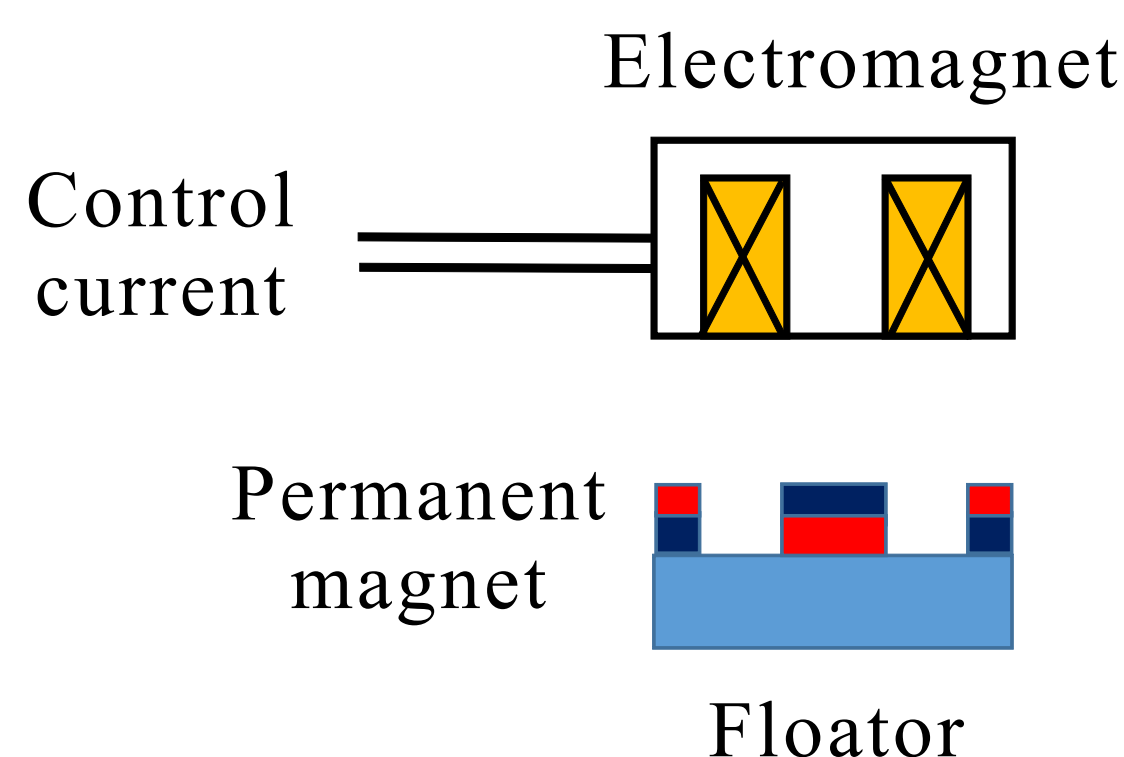


- Levitation achieved by zero-power control
- Rotation without abrasion and friction

Experiment of levitation and rotation



Zero-power Control



- Attractive force of suspension produced by the permanent magnets
- Electromagnet support the suspension steady
- Electromagnet current converges to zero during steady states

Future plan

- Design and production of wind power generator system and apparatus using solar magnetic suspension
- Design and production of the power saving system
- Evaluation of the energy balance of the whole system