COURSE INSTRUCTOR | Frequency-Response Tutorial

Prof. Jian Sun (Rensselaer Polytechnic Institute, USA)
Dr. Jian Sun is a Professor at Rensselaer Polytechnic Institute located in Troy, New York, USA. An expert in power electronics and power systems, Dr. Sun is credited for establishing the small-signal sequence immittance theory and developing it into a systematic framework for frequency-domain modeling, stability analysis, and control of power electronics in power systems.

He also contributed greatly to practical applications of his theory through research collaboration with industry as well as direct involvement in solving real-world stability problems in renewable energy, HVDC transmission, and converter-based power distribution systems.

He has consulted for TenneT, China State Grid, GE, Facebook and other companies in that capacity. The materials presented in the course are developed from his firsthand expertise, insights, and practical experiences accumulated over 15 years.