

Impedance-Based Frequency-Domain Stability Analysis and Design of Converter-Interfaced Resources and Power Systems

Taught by Prof. Jian Sun, supported by energynautics

Confronting Stability Challenges in the Energy Transition? This Course is Designed for You!

Following the successful first edition taught in 2023-2024 and strong interests of industry, we are pleased to announce the second edition of this unique course to start in January 2025

Impedance-based frequency-domain modeling and analysis provide a systematic framework to address new stability challenges of converter-interfaced resources and future power systems. Designed **for engineers and researchers working in the field of renewable energy, HVDC transmission, as well as grid planning and operation**, the course provides an in-depth coverage of the methods from fundamental theory to different applications. The presentation of course materials emphasizes basic concepts, engineering insights, and practical solutions to make the course most valuable to working professionals.

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Lecturer

The course will be taught by **Dr. Jian Sun, Professor at Rensselaer Polytechnic Institute (RPI), USA.**

A pioneer and an international authority on the subject matter, Dr. Sun is credited for developing the immittance-based frequency-domain stability methods for more than 20 years and promoting their practical applications globally. In addition to research, he has been directly involved in solving many “first-of-their-kind” real-world stability problems by applying his theory. He will share his knowledge, insights and first-hand experiences with the audience in this comprehensive and up-to-date course.

» To learn more about the course plan, email u.betancourt@energynautics.com or visit the course webpage at:
immittance-methods.net

