综合报告会

Lecture

国家数学与交叉科学中心

Time: 09:00 am, November 6
Venue: 706, Siyuan Building

Progress in the Mathematical Study of Wind Turbine Flows and Wind Energy

Speaker: Prof. Goong Chen

美国 Texas A&M University 教授

Abstract:

Wind energy is a primary component of contemporary renewable energy development. In this talk, the speaker will describe his efforts in the study of wind energy. Issues involved are wind turbine flow control, modeling of structural vibrations of turbine towers, offshore structures, etc. He will also show short animations of wind turbine flow motion obtained by computational fluid dynamics softwares ANSYS/Fluent and OpenFOAM

Brief CV:

Professor Goong Chen was born in Kaohsiung, Taiwan 1950. He received his BSc(Math) from the national Tsing Hua University in Hsinchu, Taiwan in 1972 and PhD(Math) from the University of Wisconsin at Madison in 1977. Since 1987, he has been Professor of Mathematics and Aerospace Engineering at Texas A&M University in College Station, Texas.

He has research interests in many areas of applied and computational mathematics: control theory for partial differential equations (PDEs), boundary element methods and numerial solutions of PDEs, engineering mechanics, chaotic dynamics, quantum computation, chemical physics and quantum mechanics. He is Editor-in-Chief of the Journal of Mathematical Analysis and Applications, and he has served as Associate Editor for several other editorial boards, including the SIAM Journal of Control and Optimization, the International Journal on Quantum Information, and the Electronic Journal of Differentail Equations.