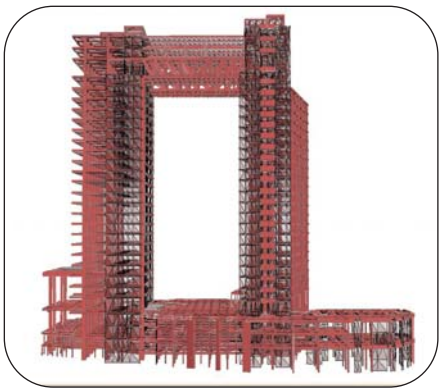
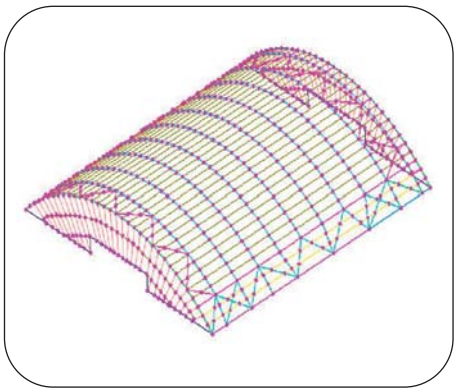
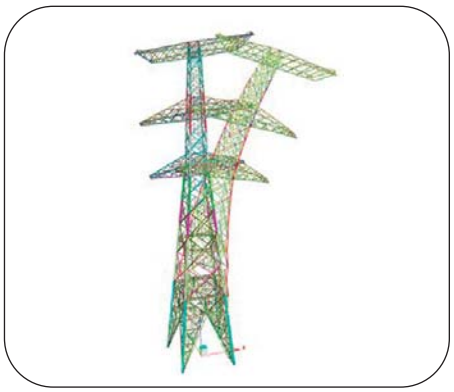
Imperial College London

Second order analysis & design of steel structures

20 July 2015

This one day course presents a comprehensive treatment of the second order analysis and design of steel structures.

Course participants will be provided with an overview of the provisions of Eurocode 3, an explanation of the various types of structural analysis and conventional design to Eurocode 3 will be covered. Emphasis will then be placed on advanced analysis and design techniques including the treatment of frame and member imperfections, second order P-Δ and P-δ effects and the interpretation of analysis results.

The following topics will be covered:

- Introduction to structural design to the Eurocodes
- Load combinations
- Conventional design of structural steel elements
- Structural analysis techniques
- Eigenvalue analysis and modelling of imperfections
- Second order P-Δ and P-δ effects
- Nonlinear analysis and design of steel structures
- Practical worked examples
- Practical design exercises

Presenters include:

- Professor Siu-Lai Chan is Chair Professor in Computational Structural Engineering at Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University
- Professor Leroy Gardner is Professor of Structural Engineering in the Department of Civil and Environmental Engineering at Imperial College London
- Stephen McCrory is a Director of NIDA Europe Ltd

Venue: Imperial College London,
South Kensington Campus,
London

Fees: £295 (booking made after 31 May 2015)
£265 (booking made before 31 May 2015)
£80 (Student fee)

For information and registration, contact:
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www.imperial.ac.uk/cpd/steelstructures