

## Free technical webinar on

# *Second-order direct analysis of slender and long-span structures to Code of Practice for the Structural Use of Steel 2011*

*By Dr. Yao-Peng Liu & Ir. Dr. Alfred Fong*

Organized by  
Young Members Group, The Hong Kong Institute of Steel Construction  
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

**Date:** 13<sup>th</sup> August 2020 (Thursday)  
**Time:** 6:30 pm to 8:00 pm  
**Registration:** <https://forms.gle/gSNoXEcXjHt3XGta9>

### Scope and Objectives

The Code of Practice for the Structural Uses of Steel 2011 has already been enforced in Hong Kong for design of steel structures. Second-order direct analysis method has long been recognized as a versatile and more reliable design tool than the first-order analysis method for a safer, more economical and efficient design. As such, this seminar is organized for presentation the concept and rationale as well as the approach adopted in the Code of Practice for the Structural Uses of Steel 2011.

### Speakers

**Dr. Yao-Peng Liu** (劉耀鵬) is the director of NIDA Technology Co., Ltd. (寧達科技有限公司). He obtained his PhD degree from the Hong Kong Polytechnic University and his research interests include: development of finite elements; second-order direct analysis and design of steel and composite structures; long-span steel structures, etc. Dr. Liu is a Guest Professor at Southwest Jiaotong University (西南交通大學) and Shenyang Jianzhu University (瀋陽建築大學). He also served as an associate editor of “International Journal of Advanced Steel Construction” and “Progress in Steel Building Structures” (建築鋼結構進展). Dr. Liu has made significant contributions on the drafting work of the new Chinese Steel Code “GB50017-2017”. He also provides engineering consultancy for the design of many large-scale steel structures in Hong Kong, Macau, Singapore, India and Myanmar.

**Ir. Dr. Alfred Fong** is a structural engineer. He has authored or co-authored seven refereed journal papers in addition to several conference papers on second-order direct analysis method. He is experienced in design of long span structures, high-rise buildings, residential and commercial development and advanced analysis. He possesses ample experience in developing software that can apply direct analysis method in steel and composite structures. He is also involved in many scholarly activities including chairman of Young Members Group of HKISC from year 2013-17.

**CPD Certificates**

This seminar is recommended for **1.5** CPD hours. An attendance certificate will be issued.

**Official Language**

English will be the official language.

**Venue**

Webinar link will be sent to applicant.

**Fees & Registration**

Free attendance but limited and priority will be given to Young members group members

Please complete the [online registration form](#), by 12:00 noon, 6th August 2020.

Should you have further query, please do not hesitate to contact **Mr. Jake Chan** at [ymghkisc@gmail.com](mailto:ymghkisc@gmail.com).