Performance Based Design of
Reinforced Concrete Buildings

27–28 August 2013

Room B225, AIT Hotel and Conference Center,
Asian Institute of Technology, Bangkok, Thailand

Rationale

Performance Based Approaches (PBA) have gained considerable acceptance in the recent years for determining and designing structures for specific hazards, specially earthquakes. PBA provides a rational and systematic way for determining the performance of structures using relatively rigorous techniques and tools, including the effects of non-linearity and dynamics to achieve specific response targets.

This two-day seminar and workshop intends to provide the necessary background and hands-on demonstration of performance based design of concrete buildings.

Objectives

1. To provide consolidated theoretical background and practical knowledge on the Performance Based Design of Reinforced Concrete Buildings.

2. To demonstrate the effective usage of structural engineering software for carrying out Performance Based Design

*To register, please contact **Ms. Petcharat Wongthong**, Course Coordinator at **acecoms@ait.asia***

Key Instructors

Dr. Pennung Warnitchai
Associate Professor, Structural Engineering
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Thaung Htut Aung, M.Eng.
Coordinator, Structural Engineering Unit
AIT Consulting, Asian Institute of Technology

Dr. Naveed Anwar
Executive Director, AIT Consulting
Affiliate Faculty, Structural Engineering
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Shabir Talpur, M.Eng.
Project Engineer, Structural Engineering Unit
AIT Consulting, Asian Institute of Technology

Dr. Teraphan Ornthammarath
Scientist, Seismic Risk Evaluation and Mitigation
Regional Integrated Multi-Hazard Early Warning
System for Africa and Asia (RIMES)

27 August 2013 (Tuesday)

Time	Topics	Instructor
9:00-10:30	Overview of Performance Based Design	Dr. Naveed Anwar
10:30- 10:45	*Coffee Break*	
10:45-12:00	Modeling for Pushover and Nonlinear Dynamic Analysis	Dr. Naveed Anwar
12:00-13:00	*Lunch Break*	
13:00-14:45	Wind Effect on Buildings and Wind Tunnel Test Procedures	Dr. Pennung Warnitchai
14:45-15:00	*Coffee Break*	
15:15-16:30	Modeling for Performance Based Design in SAP2000	Mr. Thaung Htut Aung

28 August 2013 (Wednesday)

Time	Topics	Instructor
9:00-10:30	Capacity Based Design of Structural Components	Dr. Naveed Anwar
10:30- 10:45	*Coffee Break*	
10:45-12:00	Modeling for Performance Based Design in PERFORM 3D	Mr. Shabir Talpur
12:00-13:00	*Lunch Break*	
13:00-13:45	Site-specific Seismic Hazard Assessment	Dr. Teraphan Ornthammarath
13:45-14:45	Hands-on Training on Nonlinear Analysis of Ductile Core Wall Building in SAP2000	Mr. Thaung Htut Aung
14:45-15:00	*Coffee Break*	
15:00-16:30	Hands-on Training on Nonlinear Analysis of Ductile Core Wall Building in SAP2000	Mr. Thaung Htut Aung

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