

구조신뢰성특강 - Code Calibration

(Fall Semester, 2018)

Instructor : 김 지 현
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T.A. : 송상원 (35-212, 880-7349)
Class Hour : Tue/Thu 14:00-15:15
Text : Class note by the instructor
Reference : 1. Probability, Reliability and Statistical Methods in Engineering Design by Haldar and Mahadevan
2. Journal papers No. 34-39 in the web site

Contents

1. Introduction (1)
2. Fundamentals of Code Calibration (1-3)
3. Reliability Analysis and Inverse Reliability Analysis (4-7)
4. Code Calibration for Linear Limit State Functions by Optimization for Frame (8-12)
5. Code Calibration for Linear Limit State Functions by Optimization for Cable (13-15)
6. Wind Load Statistics
7. Target Reliability of Wind Load-Governed Limit State
8. P-M interaction Diagram of RC Columns and Reliability Analysis of Columns
9. Code Calibration of Wind Load Factors for Pylon

Evaluation

(to be adjusted as needed)

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|------------------------------|--------|-----------|
| 1. Mid-Term Exam | : 30 % | (Oct. 16) |
| 2. Final Exam/Term Project | : 40 % | (Dec. 13) |
| 3. Home Works and Attendance | : 30 % | |

Rules for Class

1. All grades including C, D, F are possible.
2. No homework will be accepted after due dates.
3. No cellular phone during class
4. Final grades are final. Absolutely no chance to alter them by any excuse.