

EEE472 Power System Analysis II

Semester: 2023-2024 Spring

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Reference Books:

1. Power System Analysis and Design (5th edition) by J.D. Glover, M. S. Sarma & T. J. Overbye, 2012, 2008 Cengage Learning, ISBN-13: 978-1-111-42577-7, ISBN-10: 1-111-42577-9.
2. Güç Sistemlerinin Analizi ve Tasarımı (5th baskıdan çeviri) by J.D. Glover, M. S. Sarma & T. J. Overbye, Çeviri Editörü: M. S. Dincer, 2017, Nobel Akademik Yayıncılık, ISBN: 978-605-320-626-9.
3. Power System Analysis by H. Saadat, 1999, WCB/McGraw-Hill, ISBN: 0-07-561634-3.
4. Electrical Power Systems by D. Das, 2006, New Age International Limited Publishers, ISBN (13): 978-81-224-2515-4. Power System Analysis by P. S. R. Murty, 2007, BS Publications, ISBN: 978-81-7800-161-6.

Final Grade = Midterm #1*0.3 + Midterm #2*0.3 + Final*0.4

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2023-2024 Spring / Weekly Program

Week Date Subject

1	06 March	Introduction to Faults on Power Systems and Symmetrical Faults
2	13 March	Symmetrical Fault Analysis using Direct Method and Thevenin Theorem
3	20 March	Bus Admittance and Bus Impedance Matrices
4	27 March	Symmetrical Fault Analysis using Bus Impedance Matrice
5	03 April	Introduction to Symmetrical Components
6	10 April	Sequence Impedances and Sequence Networks
7	17 April	Single Line to Ground Fault
8	24 April	Midterm I
9	30 April	Double Line to Ground Fault
10	01 May	Official Holiday
10	08 May	Line to Line Fault
11	15 May	Introduction to Load Flow
12	22 May	Load Flow Analysis: Gauss and Gauss Siedel Methods
13	29 May	Load Flow Analysis: Newton-Raphson Method
14	05 June	Midterm II
15	12 June	Power System Stability