Computer relays: ECEN 679

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http://www.ece.tamu.edu/~pscp/index.html

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Course Goals

- Cover selected topics (syllabus)
- Focus on: a) design issues for distance relays and b) several special topics in monitoring and protection
- Give insight into new trends in applications
- Encourage discussions
Course Outline

1. Introduction, Course Outline, Definitions
2. Protection Function Requirements
3. Computer Relay Hardware and Software
4. Digital Algorithms Based on Fundamental Frequency
5. Digital Algorithms Based on Traveling Waves
6. Relay Design Characteristics
7. Summary of Algorithms (Quiz #1)
8. Project #1 Presentations
9. Spring Break
10. Integrated/Coordinated System Concept for Substations
11. Substation System Hardware, Software, Communications
12. Adaptive and System-Wide Relaying, Intelligent Systems
13. Testing Tools and Methodologies
14. Fiber-Optic Applications
15. Project #2 Presentations (Quiz #2)
16. Course Summary

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Course website

- Announcements
- Syllabus
- Lectures
- Calendar
- Projects
- Documents
- References
- Lab manual
- Grades
Important class issues

- No designated book; lots of notes and handouts
- Self learning encouraged
- Questions are encouraged
- Focus on both fundamental issues and practical experience
- Paperless approach; everything on website

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