

# Outlines

- Introduction to RF and Wireless Technology
- Basic Concepts in RF Design
- Passive RLC Networks
- Smith Chart and S-Parameters
- Distributed Systems
- Microwave Amplifier Design
- Noise, Broadband, And High-Power Design Methods
- Microwave Transistor Oscillator Design

# Evaluation

- Homework 15%
- Project 25%
- Final Exam 60%

# References

- "Microwave Transistor Amplifiers: Analysis and Design (2nd Edition)", G. Gonzalez, Prentice Hall, 1996.
- "The Design of CMOS Radio-Frequency Integrated Circuits (2nd Edition)", T. Lee, Cambridge University Press, 2004.
- "RF Microelectronics", B. Razavi, Prentice Hall, 1998.
- "RF Microelectronics (2nd Edition)", B. Razavi, Prentice Hall, 2011.
- "Radio Frequency Integrated Circuits and Technologies", F. Ellinger, Springer, 2007.