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Michael Ossmann: Simple RF

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Doherty Power Amplifier,  
Part 1

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CIRCUITS ~~Radio Frequency  
Integrated Circuits, RFIC~~

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~~Lecture 14: Differential~~

~~LNAs Radio Frequency~~

~~Integrated Circuits, RFIC~~

~~Lecture 13: Noise~~

~~Cancellation LNA~~

~~Fundamentals of RF and~~

~~Wireless Communications RF~~

~~Design Basics and Pitfalls~~

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Circuits, RFIC - Lecture 34:  
Cross-coupled Oscillator

**What does the Choke in a Tube**

**Power Supply do?** ~~Audio~~

~~Amplifier Circuit Repair~~

~~???? ???? ????????? ???? ???? |~~

~~How to Repair Audio~~

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~~Amplifier Circuit For Why Should  
You Use a Thermistor in a  
Tube Amplifier? How~~

Integrated Circuits Work -  
The Learning Circuit *How to*  
*repair weak distorted*  
*channel Realistic SA 1000*  
*home stereo amplifier D-Lab*

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~~KT88 Single Ended Tube  
Amplifier Build 2018 - Part  
4 Intro to RF - EEs Talk  
Tech Electrical Engineering  
Podcast #21~~

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RF Design-11: RF Circuit  
Design with Custom 3D  
Components *Working on the*

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*Google Hardware Team RF and  
Antenna Basics in 802.11  
Radio Frequency Integrated  
Circuits, RFIC - Lecture 36:  
Frequency Synthesizers ~~Radio~~  
~~Frequency Integrated~~  
~~Circuits, RFIC - Lecture 19:~~  
~~Active Mixers~~ **Radio***

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## **Frequency Integrated Circuits, RFIC - Lecture 22a: RF Power Amplifiers - An introduction**

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Lecture 1 - Introduction to  
RF Design Tradeoffs Fading  
Diversity.flv **Radio frequency  
integrated circuit** The

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Hartley and Colpitts  
Oscillators with Demo (AD#  
103) Fairchild Briefing on  
Integrated Circuits *Chris  
Gammell - Gaining RF  
Knowledge: An Analog  
Engineer Dives into RF  
Circuits*

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Rogers, Calvin Plett. p. cm.

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1-58053-502-x (alk. paper)

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II. Title. III. Series.



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TK7874.78.R64 2003

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Radio frequency integrated  
circuits (RFICs) are the  
building blocks that enable

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every device from cable television sets to mobile telephones to transmit and receive signals and data.

This newly revised and expanded edition of the 2003 Artech House classic, "Radio Frequency Integrated Circuit

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Design", serves as an up-to-date, practical reference for complete RFIC know-how.

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Semantic ...

Radio-Frequency Integrated-  
Circuit Engineering  
addresses the theory,  
analysis and design of  
passive and active RFIC's

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using Si-based CMOS and Bi-CMOS technologies, and other non-silicon based

technologies. The materials covered are self-contained and presented in such detail that allows readers with...

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Frequency Integrated  
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The Design of CMOS Radio-  
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Circuits ...

John Rogers and Calvin  
Plett, Radio Frequency  
Integrated Circuit Design,

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Second Edition, Artech  
House, 2010, ISBN  
978-1-60783-979-8 Available

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design / W. Alan Davis,

Krishna Agarwal. p.

cm.—(Wiley series in

microwave and optical

engineering) Includes index.

ISBN 0-471-35052-4 1. Radio

circuits—Design and

construction. I. Agarwal,

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Krishna K. (Krishna Kumar)

II. Title. III. Series.

TK6560 .D38 2001 621.381'32

-dc21 00-043690 Printed in  
the United States of  
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This course will cover the design and analysis of radio frequency integrated circuits (RFICs) for communications. We will begin with an overview of RF



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and wireless technology, and cover some fundamental concepts in RF design such as nonlinearity, sensitivity, and dynamic range. Matching and impedance transformation networks will be discussed,

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ECE 6730: Radio Frequency  
Integrated Circuit Design  
Learn about passive  
components used in RF  
systems. RF systems are not

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fundamentally different from other types of electric circuits. The same laws of physics apply, and consequently the basic components used in RF designs are also found in digital circuits and low-

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frequency analog circuits.  
However, RF design involves  
a unique set of challenges  
and objectives, and  
consequently the  
characteristics and uses of  
components call for special  
consideration when we are

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operating in the context of  
RF.

## Cognitive Radio Systems

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Passive Components in RF  
Circuits | Introduction to  
RF ...

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Circuit Design / John  
Rogers, Calvin Plett. p. cm.

— (Artech House microwave  
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1. Radio frequency

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Integrated circuits—Design  
and construction. 2. Very  
high speed integrated  
circuits. I. Plett, Calvin.  
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The project aims at designing radiofrequency integrated circuits (RFIC) with a focus on frequency synthesis for positioning application. Frequencies targeted are below 5GHz. The



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engineer will be in charge of designing an architecture (already provided) using 28nm FDSOI technology from ST Microelectronics. It is expected to scale the system to respect the required performances, to draw the

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layout, to simulate the  
circuit with extracted  
parasitics, to report the  
design to supervisors, to  
...

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Circuit design | EURAXESS

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Integrated Circuit Design

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