

“Growing a Large, Collaborative Plone Site”

J Cameron Cooper
jc Cooper@rice.edu



Connexions

Connexions is:

a place to view and share educational material made of small knowledge chunks called modules that can be organized as courses, books, reports, *etc.* Anyone may view or contribute:

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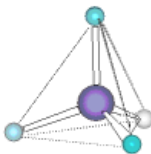
FEATURED CONTENT

Understanding Basic Music Theory



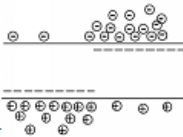
"Understanding Basic Music Theory" is an introduction to music theory by one of Connexions' most popular authors. In addition to the basic concepts of music theory, this course and book offer a review of common notation and an introduction to the physics behind music theory, as well as a few slightly advanced but very useful topics, such as transposition.

Chemistry Concepts



"Concept Development Studies in Chemistry" is an on-line textbook for an Introductory General Chemistry course. Each module develops a central concept in Chemistry from experimental observations and inductive reasoning. This approach complements an interactive or active learning teaching approach.

Introduction to Physical Electronics



This course offers an introduction to solid state device including field effect and bipolar transistors. Properties of transmission lines and propagating E&M waves are also presented. It is available both online and as a print-on-demand book.

FIND CONTENT

4797 reusable modules woven into 285 collections.

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SPOTLIGHT

Featured author



Ricardo von Borries is using Connexions to bring digital signal processing content to

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Module

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INSIDE COLLECTION (COURSE):

Introduction to Physical Electronics

[NEXT »](#)

Course by: [Bill Wilson](#)

Simple Conduction

Module by: [Bill Wilson](#)

Summary: Introduction of simple conduction, including the basic ideas and models of conductor.

Our initial studies will more or less be a review of topics in electricity that you may have seen before in physics. However, if experience is any guide, there is no great harm in going back over this material, for it seems that for many students, the whole concept of just how electricity actually works is just a little hazy. Considering that you hope to be called an electrical engineer one of these days, this might even be a good thing to know!

Most of the "laws" of how electricity behaves are really just mathematical representations of a number of empirical observations, based on some assumptions and guesses which were made in attempt to bring the "laws" into a coherent whole. Early investigators (Faraday, Gauss, Coulomb, Henry etc....all those guys) determined certain things about this strange "invisible" thing called electricity. In fact, the electron itself was only discovered a little over 100 years ago. Even before the electron itself was observed, people knew that there were two kinds of electric charge, which were called **positive** and **negative**. Like charges exhibit a repulsive force between them and opposite charges attract one another. This force is proportional to the product of the absolute value of positive and negative charge, and varies inversely with the square of the distance between them. Different charge carriers have different mass, some are very light, and others are significantly heavier. Electrical charges can experience forces, and can move about. Since force times distance equals work, a whole system of energy (**potential** as well as **kinetic**) and energy loss had to be described. This has lead to our current system of electrostatics and electrodynamics, which we will not review now but bring up along the way as things are needed.

Just to make sure everyone is on the same footing however, let's define a few quantities now, and then we will see how they interact with one another as we go along.

The total charge in some region is defined by the symbol Q and it has units of Coulombs. The fundamental unit of charge (that of an electron or a proton) is symbolized either by a little q or by e . Since we'll use e for other things, in this course we will try to stick with q . The **charge of an electron**, q , has a value of 1.6×10^{-19} Coulombs.

Since charge can be distributed throughout a region with varying concentrations, we will also talk about the **charge density**, $\rho(v)$, which has units of $\frac{\text{Coulombs}}{\text{cm}^3}$. (In this book, we will use a modified MKS system of units. In keeping with most workers in the solid-state device field, volume will usually be expressed as a cubic centimeter, rather than a cubic meter - a cubic meter of silicon is just far too much!) In most cases, the charge density is not uniform but is a function of where we are in space. Thus, when we have $\rho(v)$ distributed throughout some volume, V

$$Q = \int_V \rho(v) dv \tag{1}$$

describes the total charge in that volume.

We know that when we apply an electric field to a charge that there is a force exerted on it, and that if the charge is able to move it will do so. The motion of charge gives rise to an **electric**

Collection

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Conductors, Semiconductors and Diodes

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- [PN-Junction: Part II](#)
- [Gauss' Law](#)
- [Depletion Width](#)
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- [Reverse Biased/Breakdown](#)
- [Diffusion](#)
- [Light Emitting Diode](#)
- [LASER](#)
- [Solar Cells](#)

Bipolar Transistors

- [Intro to Bipolar Transistors](#)
- [Transistor Equations](#)
- [Transistor I-V Characteristics](#)
- [Common Emitter Models](#)
- [Small Signal Models](#)
- [Small Signal Model for Bipolar Transistor](#)

FETs

- [Introduction to MOSFETs](#)
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- [Threshold Voltage](#)
- [MOS Transistor](#)
- [MOS Regimes](#)
- [Plotting MOS I-V](#)
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Introduction to Physical Electronics

Collection type: Course

Course by: [Bill Wilson](#)

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Summary: An introduction to solid state device including field effect and bipolar transistors. Properties of transmission lines and propagating E&M waves.

Instructor: William Wilson

Institution: Rice University

Course Number: ELEC 305

This collection contains:

Modules by: [Bill Wilson](#)



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B

- [Bacz, Matthew](#)
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Modules: 5, Collections: 1
- **[Baker, Judy](#)**
Modules: 10, Collections: 1
- [Ballenger, Julia](#)
Modules: 1, Collections: 0
- [Ballon, Hilary](#)
Modules: 28, Collections: 1
- [Band, dolittle](#)
Modules: 1, Collections: 0
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Modules: 8, Collections: 1
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Modules: 0, Collections: 1
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Modules: 1, Collections: 0
- [Barland, Ian](#)

3. VIEW

Judy Baker

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Content By

Type	Title
	Introduction to Open Educational Resources
	OER Delivery, Storage, and Organization
	OER Delivery, Storage, and Organization
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	OER Identifying Sources
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	OER Open Courseware
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Type	Title	Visits/Day	Percentile
	Minor Keys and Scales	392.38	99.98%
	Major Keys and Scales	239.86	99.96%
	Clef	198.39	99.94%
	Measures of Central Tendency	191.15	99.92%
	The Circle of Fifths	183.91	99.90%
	The Music of the Romantic Era	179.08	99.88%
	Tuning Your Guitar	172.12	99.86%
	Variables	158.34	99.84%
	Key Signature	153.09	99.82%
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Feedback



Figure 11: You may also find it useful to compare the dorian with the minor scales from [Figure 6](#). Notice in particular the relationship of the altered notes in the harmonic, melodic, and dorian minors.

Comments, questions, feedback, criticisms?

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Last edited by [Catherine Schmidt-Jones](#) on Oct 3, 2007 12:42 pm GMT-5.

Author Info

Member Profile: Catherine Schmidt-Jones

Username: Catherine

Contact: casjones@soltec.net

Location: Champaign, Illinois, USA

Interests: [Music](#)

Author of: [167 Modules and 12 Courses](#) ([view statistics](#))

Maintainer of: [15 Modules](#) ([view statistics](#))

Coauthors: [Douglas L. Jones](#), [Nelson Lee](#), [Russell Jones](#)

Recommended Content: [Understanding Basic Music Theory](#), [A Parent's Guide to Music Lessons](#), [Musical Travels for Children](#)

Biography:

Attended Rice University, completing a B.A. in chemistry as well as the B. Music and M. Music. Married to (Connexions author) Douglas L. Jones. 2004 Connexions Author of the Year. Currently teaching brass and guitar privately.



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Statistics: All Time Recent (10/29–11/05) Download Spreadsheet				
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X Perfect Pitch: Using Software to Alter Your Voice (m12553)	15145	14.39	89.46%	535
X Harmonic Detection (m12555)	7158	6.80	70.96%	1476
X The Pitch Correction Algorithm: An Overview (m12539)	7112	6.76	70.76%	1486
Y Speech Synthesis (col10253)	6947	6.60	69.91%	1529
X Speech Synthesis Summation (m12551)	4670	4.44	54.88%	2293
X Reconstructing A DFT With A Pitch Shift (m12552)	3467	3.29	42.30%	2932
X Length Changer (m12554)	2754	2.62	32.75%	3418
X Voice Randomization (m12556)	2641	2.51	31.04%	3505
X The Wyld Stallyn Team (m12550)	2621	2.49	30.91%	3512
X Biodiversity over Time (m12148)	2414	2.00	23.08%	3909

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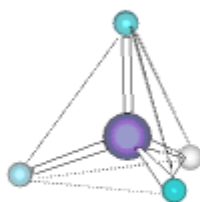
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Featured Author

SPOTLIGHT

Featured author



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Lens by: Travelers in the Middle East Archive
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Lens by: Texas Instruments
Content: 32 modules and/or collections
- [Rice University ELEC 301 Project Lens](#)
Lens by: Rice University ELEC 301
Content: 4 modules and/or collections
- [Rice University Press Titles](#)
Lens by: Rice University Press
Content: 2 modules and/or collections
- [Collaborative Development of Ethics Across the Curriculum Resources and Sharing of Best Practices's Lens](#)
Lens by: Collaborative Development of Ethics Across the Curriculum Resources and Sharing of Best Practices
Content: 19 modules and/or collections
- [National Instruments](#)
Lens by: National Instruments
Content: 13 modules and/or collections



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Selections of content for any purpose



Lenses

Texas Instruments MSP430

Lens by: [Texas Instruments](#)



Texas Instruments is committed to helping students and professors develop the future of ultra-low power microcontrollers through the development and distribution of free educational content. Learn more at the [TI University Program Website](#)

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View: Lens Detail Compact Statistics [1] 2 3 Next 10 >	
Introduction to the Texas Instruments ez430 (col10354)	
Author: Naren Anand Lens Tags: Course ez430 Programming Basics Lens Comments: This is the entire course organized at Rice University for all the basic lessons for using an MSP430. It is designed for the use of an ez430 tool and is still under construction.	
Microcontroller and Embedded Systems Laboratory (col10215)	
Authors: Patrick Frantz, CJ Ganier, Erik Welsh, adrian valenzuela Lens Tags: DSP Course Lab Programming Basic Embedded Assembly Interrupts Lens Comments: Basic introduction to microcontroller-based embedded systems development. Includes structured laboratory exercises in the following areas: assembly programming, C language programming, peripheral interfacing, interrupt management, structured programming, task scheduling, simple digital signal processing (DSP), and other related topics. This course assumes no prerequisites and is primarily intended for first and second year engineering students.	
1.2 - Introduction to the IAR Workbench IDE (m13619)	
Author: Naren Anand Lens Tags: IAR Kickstart Programming Lens Comments: A quickstart tutorial to the IAR Workbench IDE. Learn how to create a project, edit files, build solutions, and use the debugger.	
1.3 - Introduction to Programming the ez430 (m13623)	
Author: Naren Anand Lens Tags: ez430 Tutorial Basic I/O Lens Comments: This is a basic tutorial on how to program the basic digital peripherals on the ez430.	

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- [DSP Laboratory: Aliasing](#)
- [Interactive Digital Filter Design - Online Tool for IIR Filter and FIR Filter Design](#)
- [DSP Laboratory: IIR Notch Filter Design](#)
- [DSP Laboratory: IIR Filter Design via the Bilinear Transformation](#)
- [DSP Laboratory: FIR Filter Design](#)

LENSES

Member lists (?)

- [NI Signal Processing](#)

Tags (?)

- [LabVIEW](#)
- [DSP](#)

Fundamentals of Digital Signal Processing Lab

Collection type: Course

Course by: [Erik Luther](#)

[Start >>](#)

Summary: The purpose of this lab is to familiarize students with the DSP development workstation in the signal processing lab by examining sampled signals. Specifically, we will first look at sampling/reconstruction of continuous-time signals. We will then examine time- and frequency-domain domain sampling frequency and its effects on aliasing.

Instructor: A. David Salvia

Institution: Pennsylvania State University

Course Number: EE 453

This collection contains:

Modules by: [Erik Luther](#), [Jim Cahow](#)



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Last edited by [Erik Luther](#) on Jan 3, 2006 5:24 pm US/Central.

Usability testing

Current Test

== Sidebar and Popups Take 2, part 2 ==

1. <http://mountainbunker.org/~maxwell/sidebar-changes/testing/this-content-is.html>
2. <http://mountainbunker.org/~maxwell/sidebar-changes/testing/lenses.html>
3. <http://mountainbunker.org/~maxwell/sidebar-changes/testing/quality.html>

Test Questions

Preliminary user instructions "We are testing a new feature in Connexions. We are not testing you. If you are comfortable thinking aloud as you explore, it gives us really valuable information to help improve Connexions. Any problems you encounter help us to reevaluate ways to make things clearer."

Test Setup: Open the first mockup (#1). Tell the user: "Imagine you are a regular connexion user and understand what is connexions and the content is connexions. (If need be - give a brief overview of Cnx modules and collections here.) You searched for music and found this page. Feel free to look around, scroll up and down and. We want you to focus on the 2nd box on the left." Give them a few minutes, then ask the following questions:

- What does the second box on the left tell you?
- what is endorsed by WCMEA?
- What are tags? Where do they come from?
- What do you think "member" means?
- Do you understand what a lens is?
- Why are all these things (endorsements, affiliations, lists, tags) in one box?
- What do you expect to get if you click on
 - WCMEA?
 - K-12?
 - Jane Smith?
 - One of the tags?

Optional (if you have time)

Next show them the 2nd mockup. Repeat all the questions above. Lastly, Ask them if the concept of lenses is any clearer here?

Next show them the 3rd mockup. Repeat all the questions above. Lastly ask them if the concept of "Quality" would matter to them as a reader?

Flashy stuff

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LENSES

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- [Dogs are nice](#) 

Tags

- [training](#)
- [puppy](#)
- [dog](#)
- [adolescent](#)
- [young](#)

Surviving the Adolescent Dog

Module by: [Michelle Goldner](#)

Summary: Once puppies reach 6 months of age, the honeymoon is over. Learn how to train and manage the "teenage" canine.

How To Survive the Adolescent Dog

(and produce a reliable, well-managed dog)

Michelle Goldner, A Writer

I would like to begin this article with a disclaimer: I am not a professional dog trainer. I am a dog lover who has spent a great deal of time and money on my dog, and I have learned a great deal about dog behavior through my own experience. I am not a professional dog trainer, and I am not a professional dog behaviorist. I am a dog lover who has spent a great deal of time and money on my dog, and I have learned a great deal about dog behavior through my own experience.

Dogs it seems have always been around. They have simple roles, and have evolved into complex working canine partners. But for many people, the dog is a companion for the lack of resources needed to care for a dog properly.

The adolescent dog is the picture of health and energy. This is especially true when considering the special care that goes into breeding and selecting dogs that will be used as assistance dogs. Only the dogs of the soundest mind and body are given the training necessary to handle the tasks faced by a working dog. But what defines the adolescent dog will vary greatly from what defines an excellent canine partner for a physically challenged individual. Further, the path to a manageable adolescent dog must begin with a good puppy raiser. This article will attempt to create a receipt for the creation of a completely trained dog. From puppy to young adult, a dog is a sponge that, with the right training, becomes an animal with a lot of scope and adaptability.

The Puppy, 8 weeks to 9 months

The following is a suggested list of behaviors and the approximate time to teach them. By introducing a number of behaviors very early on, the dog's scope of behavior is enhanced. Further, while puppy raisers are normally well-intentioned volunteers, often times their grasp of modern training methods can be greatly enhanced.

Add to a lens

Add "Surviving the Adolescent Dog" to a lens

Choose lens:

Tags
Add words you associate with this content. Separate each tag with a space.

Comments

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different breeds and types of dogs, I have found that the use of a service or assistance dog is a new experience. I have lived with a 6 year-old autistic child and a dog, and I feel very strongly about just the family's pets. I feel very strongly about just the family's pets.

From time to time, the uses of some dogs have changed. There are many disabled individuals whose lives have been improved by a program and/or family due to inaction.

Organizational

- Keep complexity down
- Keep changes well controlled
 - code tracking
 - no TTW! (except emergencies)
- Test hard
- Try to upstream everything you can
- Good bug tracking worth its weight in gold

Upstreaming

- Bug reports, at least
- When you fix, fix upstream, even if you can't wait
- Put features into existing projects, if they want it
- Spin off everything you can
- Yes, it's hard when your hair's on fire
- If you don't start open source, it's hard to get there
- But, yes, it works

Scaling

- Standard stuff
 - Caching... no really
 - Hardware may be cheaper
- Specifically
 - Be sure to test with load for things that scale badly
 - Design around conflict errors
 - Sessions can be trouble

Upgrading

- Templates are biggest problem
- Note in each template/monkeypatch everything you do
- Going off the rails may work better
- Make install scripts idempotent
 - including upgrade bits

Future

- More open sourcing
 - You will be able to install it!
- Print on demand
- Distributed repository
- Plug: come work with us!