



COLLEGE OF ENGINEERING
Ca/VIEW-Virtual Instruction for the Engineering World
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BERKELEY, CALIFORNIA 94720-1702

Dear Colleague:

Welcome to EECS 242 taught by Prof. Robert Meyer. My name is Mohan Dunga, and Prof. Meyer has asked me to serve as the course facilitator and mentor to the industry engineers who enroll in his EECS 242 course offered through CalVIEW.

I took this course with Prof. Meyer and I enjoyed it a lot. Prof. Meyer is not only an internationally recognized authority in the field of analog and RF electronics, but is also an outstanding teacher. I hope you will find the class as interesting and beneficial as I did. I will be watching the lectures concurrently with you, and I will be available to discuss with you any questions you may have regarding the subject matter.

I am currently pursuing my Ph.D. at U.C. Berkeley under the supervision of Prof. Ali Niknejad and Prof. Chenming Hu. My research interests include Device Physics, Modeling and RF circuit design. Currently I am a part of the BSIM "Berkeley Short-Channel IGPET Model for circuit simulation using CMOS" team, working on BSIM3 and BSIM4 enhancements.



Mohan Dunga

The grading sheet, in the packet you will receive if you enroll in this course, gives you information about homework and exams. The homework sets will be mailed at the beginning of the session and solutions will be mailed out as the course progresses. There is no project in this course. You will not be asked to do any circuit layout. However, you will be required to perform simulations of circuits for the homework sets, and therefore should have access to IC simulation software based on SPICE (preferably HSPICE). If you do not have access to this software, please contact me as soon as possible. It is possible for you to get an EECS instructional account to remote login and run the licensed HSPICE on the EECS instructional UNIX machines. Please contact me if you need an instructional account on the EECS machines.

Homework sets must be submitted in their hardcopy form via regular mail or fax. In the case that you prefer to type your solutions in electronic format, you can also send them to me via email (PDF format is preferred).

All work done in this class will be corrected and thoroughly discussed, but not graded, unless your manager requests that grades be submitted.

Receiving your work on time will allow me to correct it and return it back to you in a timely manner. Please start planning your schedule as soon as you enroll and receive your information packet so that you will be able to turn in all assignments on time.

All items should be addressed to my attention at the Cal VIEW Office, 205 McLaughlin Hall #1702, College of Engineering, University of California, Berkeley CA 94720 - 1702. The phone number is (510) 642-5776 and the Fax number is (510) 643-5877. Also, please make a copy of everything you send me, in case work disappears en route and DO NOT FORGET to put your name, the course number, and the homework number on anything you turn into the office. The Cal VIEW staff receives a lot of correspondence from students and it can be difficult for them to identify homeworks when there is no name, homework number or class name indicated.

The course reader is comprised of two volumes. Vol. I is a compilation of the lecture slides Prof. Meyer uses while he teaches the class. These will save you from writing down much of the material while watching the DVDs of the lectures. However, you should annotate the slides when necessary. This will help you with homework, when studying for tests and for future references to the lectures. Vol. II is the course reader; it discusses the material covered in class in a greater depth. When you call me with questions during office hours and during conference calls, please have both volumes available for reference. Without visual contact, this is the next best thing available to help us communicate over the phone.

The recommended text for this course is Gray and Meyer's textbook "Design and Analysis of Analog Circuits", either the 3rd edition (1993), or the 4th edition (2001). It is not required, as the course is fairly advanced and goes well beyond the material in the text. However, it is an excellent reference -perhaps the most widely used analog IC design/analysis textbook in both industry and academia- and the course uses the contents of this book as a foundation.

I will be available to answer your questions by telephone during my office hours (to be arranged). I also strongly encourage you to use email since I can generally reply very quickly. My email address is dunga@eecs.berkeley.edu. Note, however, that email is only efficient for questions that are clear and concise, and questions that require lengthy explanations are better suited for telephone office hours. If you must speak to me outside the office hours, please call the Cal VIEW office at (510) 642-5776, and they will contact me. I will return your call as soon as I am available.

There will be four conference calls during the course. Prof. Meyer or Prof. Niknejad, his colleague, will facilitate one of them. This will give you the opportunity to speak directly with the professor about developments in the field or anything else not related to course content. I will facilitate the three other conference calls. I will give you a review for both exams and answer any questions you may have. I recommend that you participate in these sessions, as conference calls are a good way to share information and gather valuable insights from Prof. Meyer, myself, and the other engineers in your group, and also help you prepare for the exams.

Finally, please make sure to fill out the enclosed Engineer Background Questionnaire, attaching a photograph of yourself, if at all possible. The questionnaire is due with your first homework assignment.

I wish you a successful learning experience, and I look forward to a stimulating time working with you.

Sincerely,

Mohan Dunga.