

LAB #5: MOSFET CHARACTERISTICS AND APPLICATIONS

Updated Dec. 30, 2003

Objective:

To characterize *n-channel* and *p-channel enhancement MOSFETs*. To investigate basic *MOSFET amplifiers*. To compare measured and simulated MOSFET circuits.

Components:

1 × CD4007UB MOSFET Arrays, 2 × 0.1 μF capacitors, 1 × 100 μF capacitor, 1 × 10 k Ω potentiometer, and resistors: 1 × 100 Ω , 2 × 10 k Ω , and 1 × 1 M Ω (all 5%, ¼ W).

Instrumentation:

A bench power supply, a waveform generator (sine/triangle wave), a digital multi-meter, and a dual-trace oscilloscope.

PART I – THEORETICAL BACKGROUND

Figure 1 shows the circuit symbols for the *n-channel* and the *p-channel enhancement MOSFETs*, the devices we are going to be using in this lab. The gate (*G*) of the MOSFET plays a similar role to the base (*B*) of the BJT. Similarly, the *drain* (*D*) can be likened to the collector (*C*), and the *source* (*S*) to the emitter (*E*). As in the case of BJTs, the *current directions* and *voltage polarities* of one device are *opposite* to those of the other. In fact, the *n-* and the *p-channel* devices are said to be *complementary* to each other, and when they are fabricated on the same substrate, the resulting technology is referred to as *complementary MOS*, or CMOS for short. Unlike the BJT, which requires a base current to go on, the FET has $i_B = 0$. Consequently, for FETs we have $i_S = i_D$.

MOSFETs possess a fourth terminal called the *body* (*B*), which is internally tied to the substrate. Though this terminal is not used on purpose, it must be properly biased to prevent unintentional effects. In the *n-channel* MOSFET the body forms a *pn* junction both with the source and the drain regions, with *B* acting as the *anode*. To avoid inadvertently turning on either of these junctions, we must at all times hold *B* at the *most negative voltage* (MNV). Likewise, in the *p-channel* MOSFET, *B* acts as the *cathode*, so it must be held at the *most positive voltage* (MPV). When physically possible, *B* is tied to *S*, and the above constraints are satisfied automatically. This will be the case with the devices of this lab.



Fig. 1 – Circuit symbols, current directions, and voltage polarities for the MOSFETs.

Sfsu Lab Manual

**Ercan Sirakaya-Turk,Muzaffer
Uysal,William E Hammitt,Jerry J Vaske**



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Guide American Anthropological Association, 2008 *Research Methods for Leisure, Recreation and Tourism, 2nd Edition* Ercan Sirakaya-Turk, Muzaffer Uysal, William E Hammitt, Jerry J Vaske, 2017-04-13 Describing the fundamental elements of research methods for leisure recreation and tourism this new edition of a popular textbook is updated throughout It covers the measurement of variables sampling questionnaire design and evaluation methods and also a wider discussion of writing proposals communicating research findings cross cultural research and the use of new technologies in conducting research Written by internationally renowned researchers in an accessible style this book introduces both undergraduate and graduate students to the vital skills they will need to succeed in the leisure recreation tourism and hospitality industries

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A People's Guide to the San Francisco Bay Area Rachel Brahinsky,Alexander Tarr,2020-10-06 An alternative history and geography of the Bay Area that highlights sites of oppression resistance and transformation A People s Guide to the San Francisco Bay Area looks beyond the mythologized image of San Francisco to the places where collective struggle has built the region Countering romanticized commercial narratives about the Bay Area geographers Rachel Brahinsky and Alexander Tarr highlight the cultural and economic landscape of indigenous resistance to colonial rule radical interracial and cross class organizing against housing discrimination and police violence young people demanding economically and ecologically sustainable futures and the often unrecognized labor of farmworkers and everyday people The book asks who had and who has the power to shape the geography of one of the most watched regions in the world As Silicon Valley s wealth dramatically transforms the look and feel of every corner of the region like bankers wealth did in the past what do we need to remember about the people and places that have made the Bay Area with its rich political legacies With over 100 sites that you can visit and learn from this book demonstrates critical ways of reading the landscape itself for clues to these histories A useful companion for travelers educators or longtime residents this guide links multicultural streets and lush hills to suburban cul de sacs and wetlands stretching from the North Bay to the South Bay from the East Bay to San Francisco Original maps help guide readers and thematic tours offer starting points for creating your own routes through the region

Field Guide to the Weather Ryan Henning,2019-06-25 Your Guide to Watching Clouds and Understanding the Weather From the soothing sound of rain to the shrill whistle of a blizzard from the house shaking rumble

of thunder to the violent fury of a hurricane weather is a fascinating part of our lives We watch it We listen to it We feel it We try to predict it But how well do we truly understand it Professional meteorologist Ryan Henning presents *Field Guide to the Weather* a handy reference to meteorology and to the types of weather phenomena that one might encounter at home or in nature It includes a simple introduction to the basics of meteorology explaining the aspects of the atmosphere that dictate how weather works From there the field guide looks at a variety of individual weather topics cloud formation and cloud type identification various forms of precipitation and much more The author goes on to discuss government issued watches and warnings and weather safety Plus readers are sure to appreciate the book's helpful guide to interpreting weather forecasts and available model information when planning an afternoon picnic or next week's vacation *Field Guide to the Weather* is a perfect introduction to the science of weather The information is captivating for kids and adults alike The simple explanations are useful in easing the mind of a frightened child and the in depth details help adults learn to understand and prepare for the weather ahead

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Guide to Socially Responsible MBA Programs: 2008-2009 The Aspen Institute, 2008-06-23 The Aspen Institute a premier non profit research organization for corporate social responsibility offers the first comprehensive guide to the world's leading global MBA programs in CSR an indispensable guide for prospective students universities hiring companies and libraries This guide provides an overview of how global MBA programs bring social impact management into their curricular and extracurricular programs Social impact management which includes environmental ethical and corporate governance issues is the field of inquiry at the intersection of business needs and wider societal concerns that reflects their complex interdependency Without an understanding of this interdependency neither business nor the society in which it operates can thrive Each year business schools from around the world strive to differentiate themselves and attract the best and the brightest future business leaders while prospective MBAs are looking for a program that will provide effective management skills to succeed in the changing face of business The bottom line is no longer exclusively dedicated to financial returns Rather business leaders must also consider the environmental and social impacts of their decisions in order to compete in today's marketplace The MBA schools that participate in the Aspen Institute's survey and are therefore highlighted in the *Aspen Institute Guide for Socially Responsible MBA Programs 2008 2009* are leaders in integrating these issues into their MBA curricula

A Field Guide to Actor Training Laura Wayth, 2014-07-01 Should I go to a school and get more training in acting or should I just go out there and do it *A Field Guide to Actor Training* will help you answer this question The book is designed to be an introduction to various theater training methodologies highlighting their basic tenets and comparing and

contrasting each system of training and rehearsal The goal is to provide a one stop shopping kind of resource for student beginning actors who are seeking training through private studios or graduate schools and who crave guidance in selecting training that is right for them Starting with the big question of Why is actor training important and moving on to overviews of the major acting methodologies vocal training physical actor training and advice on how to find the right kind of training for each individual A Field Guide to Actor Training is an essential resource for the student actor Cutting-Edge Therapies for Autism 2011-2012 Ken Siri,Tony Lyons,2011-04 Information for every parent of a child with autism updated and revised with the latest **College Guide for Performing Arts Majors** Carole J. Everett,Peterson's,2009-09-14 Describes graduate programs in art dance music and theater and lists undergraduate programs

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