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THOSE WHO ARE INTERESTED OR ARE CURRENTLY STUDYING OR RESEARCHING IN ELECTRICAL AND ELECTRONIC ENGINEERING IT CONTAINS SELECTED RESOURCES CURATED BY THE LIBRARIANS TO GET YOU STARTED ON THE DIFFERENT TOPICS IN THE DISCIPLINE IF YOU HAVE AN IPAD OR A COMPUTER AND YOU LIKE TO TAKE NOTES ON THAT YOU CAN DOWNLOAD THEM TO YOUR IPAD OR COMPUTER AND TAKE NOTES THAT WAY BUT I FIND IT S GOOD BECAUSE THERE ARE SOME THINGS THAT TAKE A LONG TIME FOR ME TO WRITE AT THE BOARD AND THAT IT WOULD TAKE A LONG TIME FOR YOU TO WRITE IN YOUR NOTES MODERN ELECTRONIC STRUCTURE THEORY ELECTRON CORRELATION IN THE PREVIOUS LECTURE WE COVERED ALL THE INGREDIENTS NECESSARY TO CHOOSE A GOOD ATOMIC ORBITAL BASIS SET IN THE PRESENT LECTURE WE WILL DISCUSS THE OTHER HALF OF ACCURATE ELECTRONIC STRUCTURE CALCULATIONS HOW WE COMPUTE THE ENERGY

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ANALYSIS 8 DEPENDENT SOURCES AND AMPLIFIERS 9 MOSFET AMPLIFIER LARGE SIGNAL ANALYSIS

ELECTRICAL ENGINEERING SCIENCE KHAN ACADEMY NOV 24 2023

UNIT 1 INTRODUCTION TO ELECTRICAL ENGINEERING GETTING STARTED UNIT 2 CIRCUIT ANALYSIS CIRCUIT ELEMENTS
RESISTOR CIRCUITS DC CIRCUIT ANALYSIS NATURAL AND FORCED RESPONSE AC CIRCUIT ANALYSIS UNIT 3 AMPLIFIERS
OPERATIONAL AMPLIFIER UNIT 4 SEMICONDUCTOR DEVICES DIODE UNIT 5 ELECTROSTATICS

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ENGINEERING AND COMPUTER SCIENCE EECs CURRICULUM AT MIT 6 002 IS IN THE CORE OF DEPARTMENT SUBJECTS
REQUIRED FOR ALL UNDERGRADUATES IN EECs THE COURSE INTRODUCES THE FUNDAMENTALS OF THE LUMPED CIRCUIT
ABSTRACTION

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A SIMPLE INTRODUCTION TO ELECTRONICS HOW DOES IT DIFFER FROM ORDINARY ELECTRICITY WHAT ARE ELECTRONIC
COMPONENTS AND WHAT CAN YOU DO WITH THEM

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THE ELECTRONS AND NUCLEI AND THE THIRD IS THE PAIRWISE REPULSION BETWEEN ALL THE ELECTRONS THE CENTRAL AIM

OF ELECTRONIC STRUCTURE THEORY IS TO FIND ALL THE EIGENFUNCTIONS OF THIS HAMILTONIAN AS WE HAVE SEEN THE EIGENVALUES WE

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KEY TAKEAWAYS ELECTRONIC THEORY EXPLORES THE BEHAVIOR AND FLOW OF ELECTRONS IN MATERIALS AND CIRCUITS VOLTAGE CURRENT RESISTANCE CAPACITANCE AND INDUCTANCE ARE FUNDAMENTAL CONCEPTS IN ELECTRONIC THEORY

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THIS COURSE COVERS BASIC THEORY AND PRACTICAL APPLICATIONS OF ELECTRICITY AND ELECTRONICS THROUGH A COMBINATION OF LECTURE AND HANDS ON PRACTICAL SESSIONS NO PRIOR KNOWLEDGE OF ELECTRICITY IS NEEDED

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