Linear Circuit Analysis II EECE 202

Why do we need Linear Circuit Analysis?

There are many challenges that the world is facing to ensure sustainable and enhanced quality of life in the following industries:

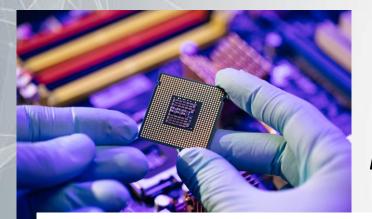
- Transportation
- Energy
- Communication
- Medicine
- Housing
- Other (any suggestions)?

Why do we need Linear Circuit Analysis?

Linear Circuit Analysis is required for creating electrical and electronic solutions to these challenges!

For example.....

Transportation



Power Semiconductors and energy storage technology – Plug-in Hybrid Electric Vehicles



Energy: Photovoltaic Materials



Renewable Energy – Solar Power from Photovoltaic Materials Wind Power from Generators

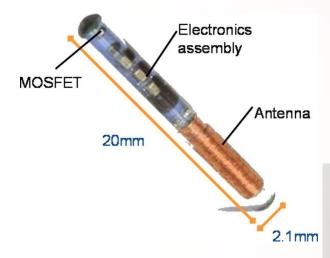
Communication





Integrated Circuits and RF/Microwave Electronics
Apple - Samsung

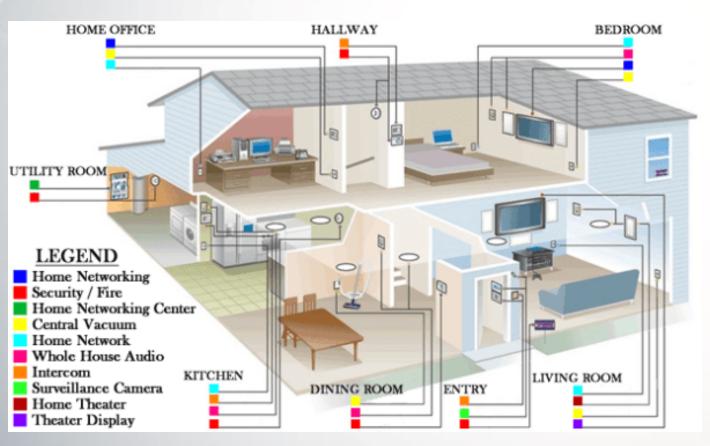
Medical Technologies





Implantable radiation sensors to improve cancer therapy
Electromagnetic imaging

Housing



Electronic Systems:

- energy management
- Telecommunications
- security
- entertainment