

# Homework

JTD & Punit

2025/05/04

## 1 Position of date

We are trying to position the date to some other spot. But cant.

## 2 Format of date

Typing some stuff other than July 6, 2020 inside curly brace will print that stuff instead.

## 3 Font Styles

There are three types of transistor amplifiers. These are common emitter, common base and common collector.

Common emitter has *high gain*. Common base has *high isolation*. Common collector has *high current gain*.

Common emitter is used in used for **signal amplification**. Common base is used in **RF circuits** to prevent spurious feedback. Common collector is used in **power output stages**.

Some common NPN transistor numbers in TO92 package are BC547, BC548, 2N2222.

## Un-numbered section

This is the first unnumbered section. We are adding some text here. The big energy electron  $e$  jumped over the valence band. Next we have to figure out how to justify text left, right, centre and both sides.

## More Un-numbered Section

The basic passive components in electronics comprise of resistors, capacitors and inductors. Resistors are color coded. Mnemonic for colour code BBROY of Great Britain has very Good Wife

## Lists

1. First item in the list
2. Second item in the list
3. Third item in the list
4. Last item in the list

### Bullet list of Active Components

- Diode
- LEDs
- Zener Diodes

### 2<sup>nd</sup> Bullet list of Active Components

- \* Transistors BJT
- \* Transistors FET
- \* Thyristors

### 3<sup>rd</sup> Bullet list of OpAmps (Ding is a thing;))

- ↘ uA741
- ↘ JRC4558
- ↘ TLO84
- ↘ LM393

### 3<sup>rd</sup> Bullet Style Bhai (Ding<sup>1</sup> is a thing;))

- ↪ Headphones
- ✂ Scissor
- ☎ Phone
- 🌸 Flower
- ↩ 3D Arrow
- ♥ Heart

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<sup>1</sup><http://mirror.iopb.res.in/tex-archive/macros/latex/required/psnfss/psnfss2e.pdf>