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Câmpus Luzerna

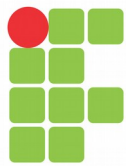
Eletrônica Básica

INTRODUÇÃO

Professor Ricardo Kerschbaumer

ricardo.kerschbaumer@ifc.edu.br

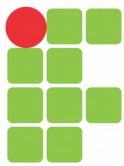
<http://professor.luzerna.ifc.edu.br/ricardo-kerschbaumer/>



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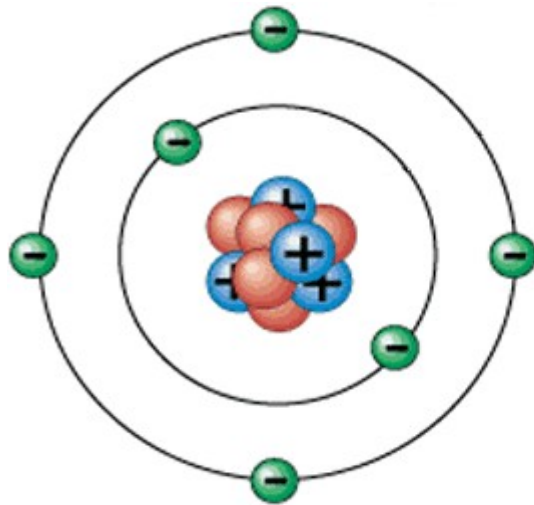
Plano de Ensino

<http://professor.luzerna.ifc.edu.br/ricardo-kerschbaumer/>

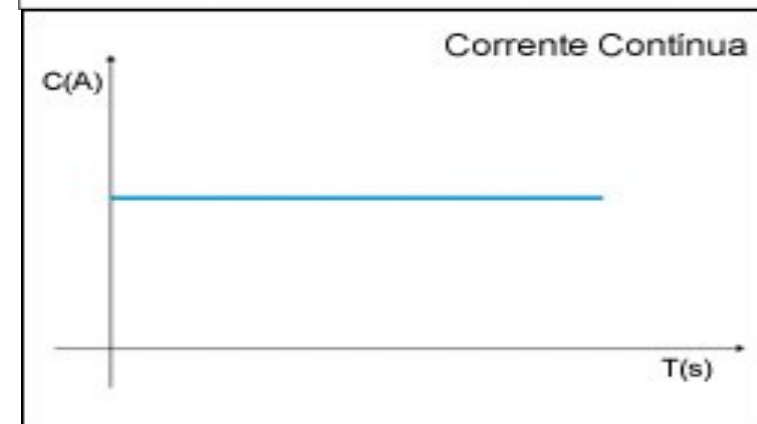
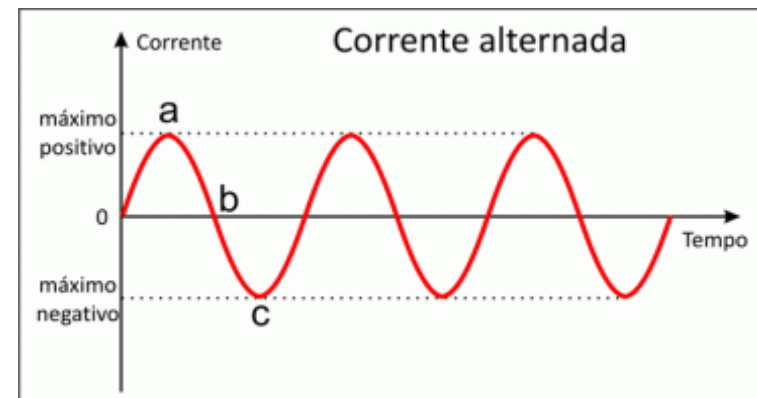
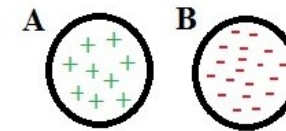
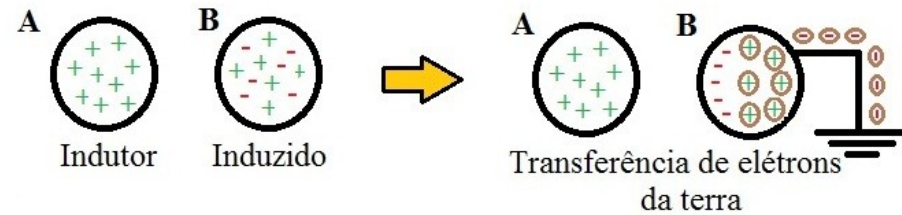
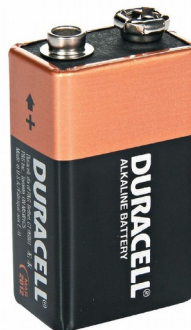


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Introdução a Eletrônica

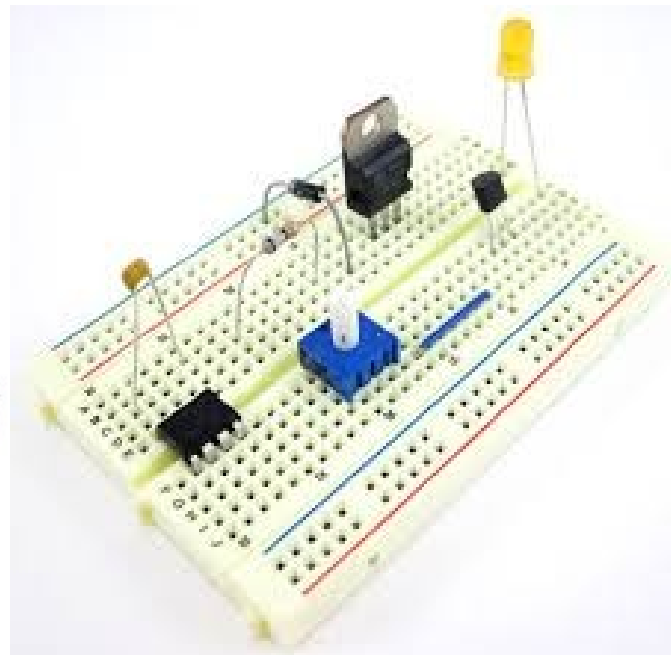
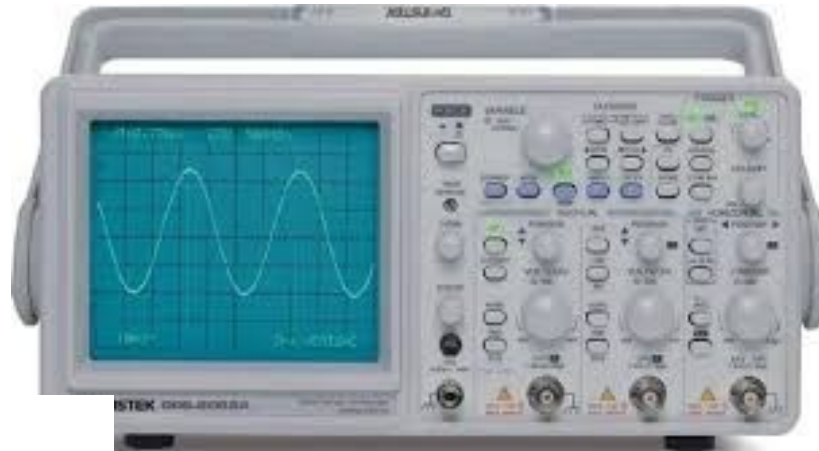


● Elétron
● Próton
● Nêutron



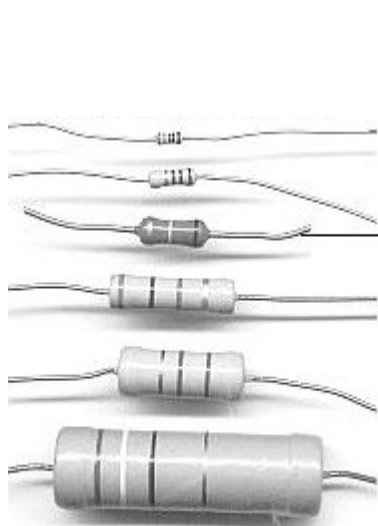
Equipamentos de Bancada

- Multímetro
- Osciloscópio,
- Gerador de Função
- Protoboard



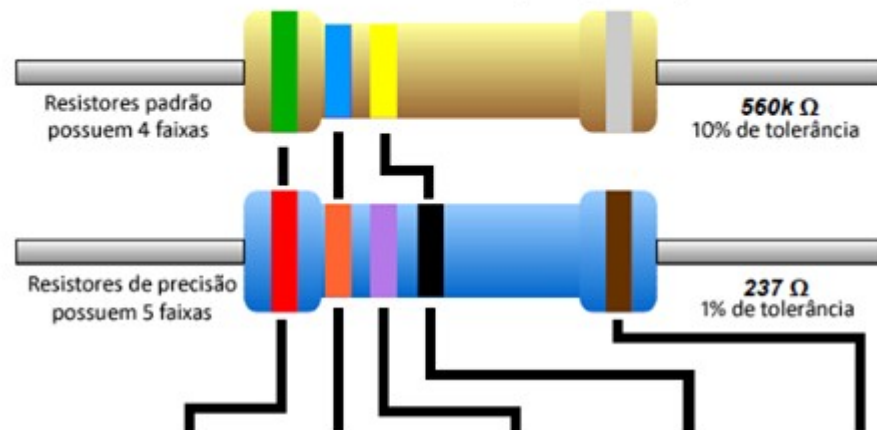
Resistores

- Código de Cores
- Associações



Código de Cores

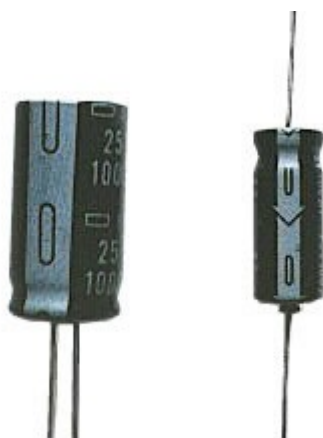
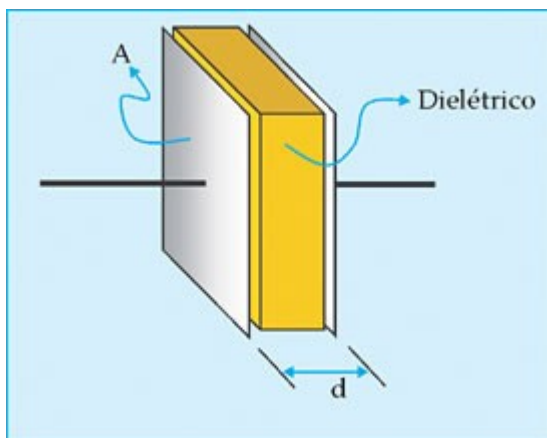
A extremidade com mais faixas deve apontar para a esquerda



Cor	1ª Faixa	2ª Faixa	3ª Faixa	Multiplicador	Tolerância
Preto	0	0	0	x 1 Ω	
Marrom	1	1	1	x 10 Ω	+/- 1%
Vermelho	2	2	2	x 100 Ω	+/- 2%
Laranja	3	3	3	x 1K Ω	
Amarelo	4	4	4	x 10K Ω	
Verde	5	5	5	x 100K Ω	+/- .5%
Azul	6	6	6	x 1M Ω	+/- .25%
Violeta	7	7	7	x 10M Ω	+/- .1%
Cinza	8	8	8		+/- .05%
Branco	9	9	9		
Dourado				x .1 Ω	+/- 5%
Prateado				x .01 Ω	+/- 10%

Capacitores

- Tipos de Capacitores
- leitura de sua capacitância
- Associações
- Aplicações
- Análise de carga e descarga



cerâmico



poliéster



eletrolítico



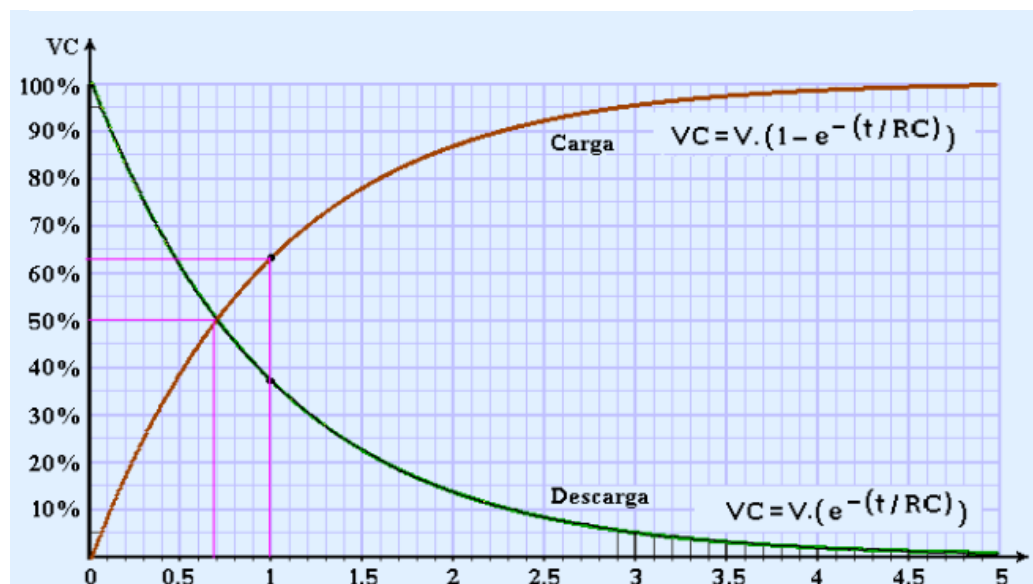
tântalo

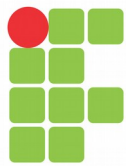


óleo



variável





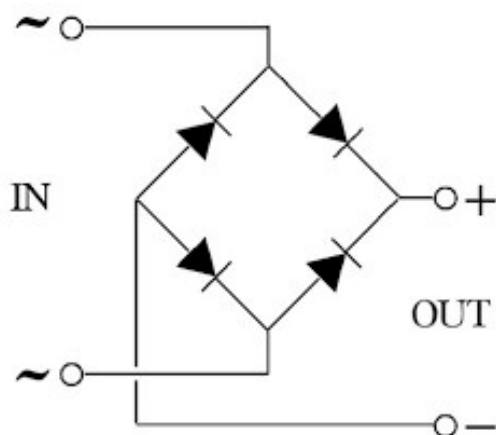
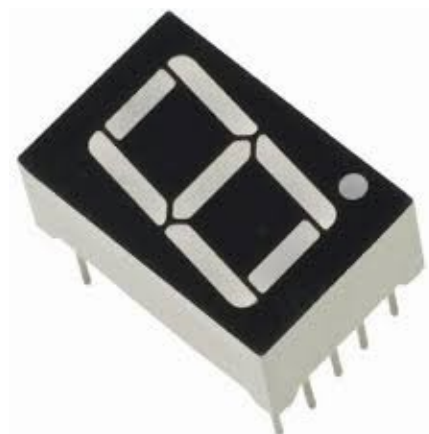
Indutores

- Características
- Associações
- Aplicações



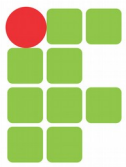
Diodos

Características
 Polarização
 Circuitos Retificadores
 Diodo Zener
 Led's



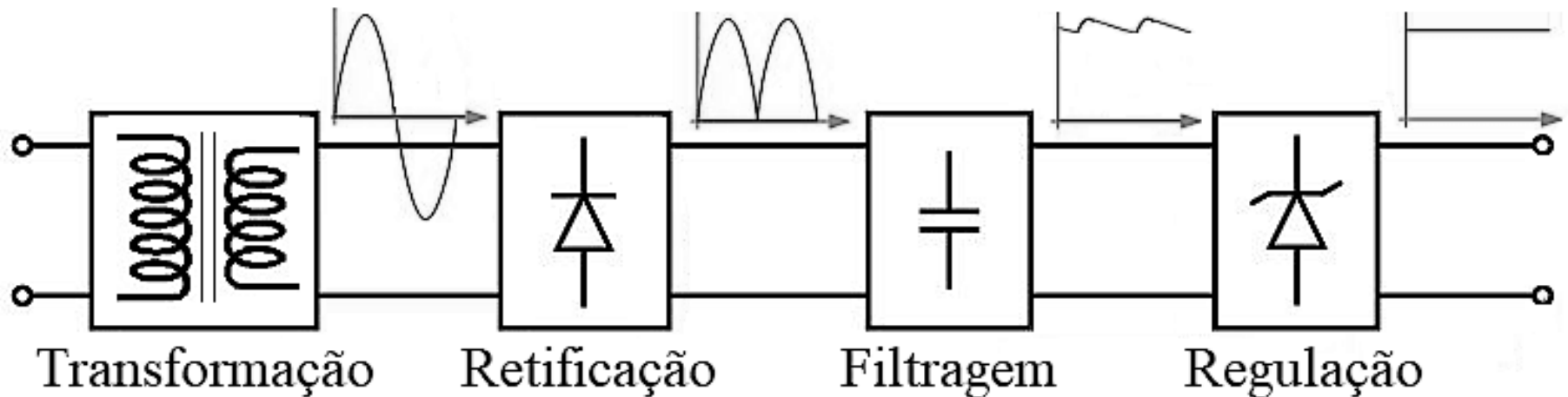
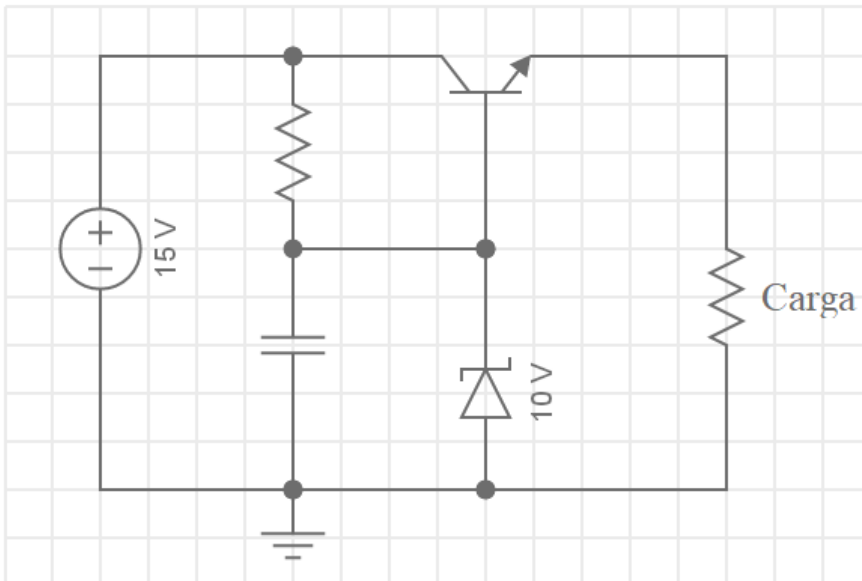
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Circuitos Reguladores

- Com Componentes Discretos
- Circuitos Reguladores Integrados



Confecção de placas de circuito impresso

