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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 19.5m | 120\*I(V2) | 3.3k | 1.2k | 270 | 1.8k | 2u | 0.5n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

12

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 12 | 1.1k |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

|  |  |
| --- | --- |
| Vsalida (V) |  |
| VControl (V) |  |

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 12m | 220\*I(V2) | 1.8k | 1.7k | 520 | 1.8k | 5u | 4n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

17

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 17 | 600 |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 17m | 70\*I(V2) | 1.3k | 700 | 120 | 1.8k | 3u | 2n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

22

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 22 | 2.1k |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 27m | 30\*I(V2) | 5.3k | 1.7k | 170 | 300 | 4u | 3n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

27

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 27 | 600 |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 12m | 70\*I(V2) | 1.8k | 700 | 320 | 800 | 3u | 1n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

12

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 12 | 2.1k |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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***Valores de los componentes* – 1ª sesión (Tutorial LTspice)**

Los valores de los componentes del circuito de las páginas 6 y 7 del guion de la práctica deberán ser los siguientes:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Icontrol | B1 | R1 | R2 | R3 | R4 | C1 | C2 | V2(DC) |
| 17m | 170\*I(V2) | 3.3k | 450 | 420 | 1.3k | 6u | 5n | 0 |

Para los perfiles de simulación “DC Operating Point”, “DC Sweep” y “AC Analysis”, además de los anteriores:

22

V1(AC)

Para el perfil de simulación de “Transient”, además de los de la primera tabla:

|  |  |  |
| --- | --- | --- |
| V1 (DC offset) | V1 (Amplitud) | V1 (Frecuencia) |
| 0 | 22 | 600 |

RESULTADOS: (expresados con sus unidades correspondientes)

*“DC Operating Point”* o punto de polarización:

Anote la tensión obtenida en el terminal de salida

Vsalida (V)

*“DC Sweep”* o barrido en continua:

Anote las tensiones máximas obtenidas en el terminal de salida y en el nodo Control

*“AC Analysis”* o barrido en frecuencia:

Anote la tensión de salida máxima obtenida en dBs y en milivoltios. Para cambiar de una magnitud a otra, basta con ir al eje Y de la izquierda/click en botón derecho/Manual Limits (Decibel  Linear) (Es interesante comparar con vuestro cálculo a partir de VdBs=20log10|V|)

Anote también la fase de la onda de salida en grados y la frecuencia a la que la tensión de salida es máxima

|  |  |  |
| --- | --- | --- |
| Vsalida (máximo) | dBs | mV |
|  |  |
| Fase (o) |  | |
| Frecuencia (Hz) |  | |

*“Transient”* o análisis temporal:

Indique el valor máximo y mínimo de la onda de salida, su valor medio y su período.

|  |  |
| --- | --- |
| Vsalida |  |
| Máximo (mV) |  |
| Mínimo (mV) |  |
| Valor medio (mV) |  |
| Período (s) |  |

Represente Vsalida en función del tiempo entre 5 y 8 ms, indicando valores de las escalas y unidades.

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| **Apellidos y nombre** | **Hojas de control** |
|  |  |
| MANZANEQUE LOZANO, Roberto | a |
| MARTIN CLIMENT, Jose Javier | b |
| MARTIN CUADRA, Hector Miguel | c |
| MARTIN HUESTAMENDIA, Daniel | d |
| MARTIN PINILLA, Juan | e |
| MARTINEZ PARRA, Miguel Angel | f |
| MATAS BLANCO, Luis | a |
| MEDINILLA ARMENTEROS, Alvaro | b |
| MENCHERO AMIGO, Juan Bautista | c |
| MERCADO MOLERO, Blanca | d |
| MIGUEL DEL BURGO, Andres de | e |
| MOLANO CARABALLO, Daniel | f |
| MOLINO RODRÍGUEZ, Alberto | a |
| MONTERO CIRUELOS, Miguel | b |
| MORALES LEON, Jose Ramon | c |
| MOREIRA MORENO, Gian | d |
| MORENO BRIÑON, Pablo | e |
| MORENO DIEZ, Juan | f |
| SANZ GRANADOS, Maria Raquel | a |
| VILLA GOMEZ, Julian | b |