

Cascaded Systems I

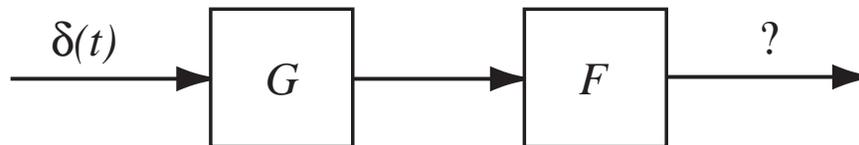
Consider a system that is itself a cascade of two systems. What is the impulse response of the system. That is, if the input to the system is an impulse, what is the output? *Do not use the associative or commutative property of convolution.*



1. $g(t) * f(t)$
2. $f(t) * g(t)$
3. Both answers are correct
4. Neither answer is correct
5. Don't know

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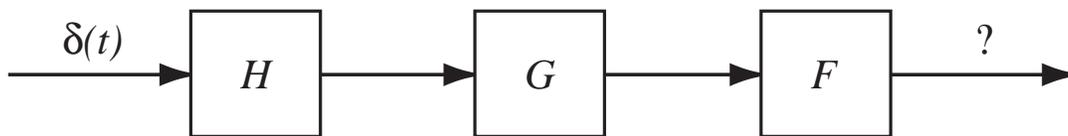


The correct answer is:

1. $g(t) * f(t)$
2. ♥ $f(t) * g(t)$
3. Both answers are correct
4. Neither answer is correct
5. Don't know

Cascaded Systems II

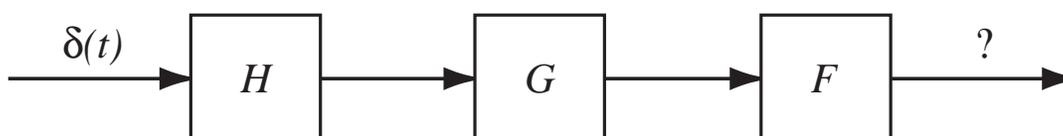
Consider a system that is itself a cascade of three systems. What is the impulse response of the system. That is, if the input to the system is an impulse, what is the output? *Do not use the associative or commutative property of convolution.*



1. $h(t) * [g(t) * f(t)]$
2. $[h(t) * g(t)] * f(t)$
3. $f(t) * [g(t) * h(t)]$
4. $[f(t) * g(t)] * h(t)$
5. More than one answer is correct
6. Don't know

Cascaded Systems II

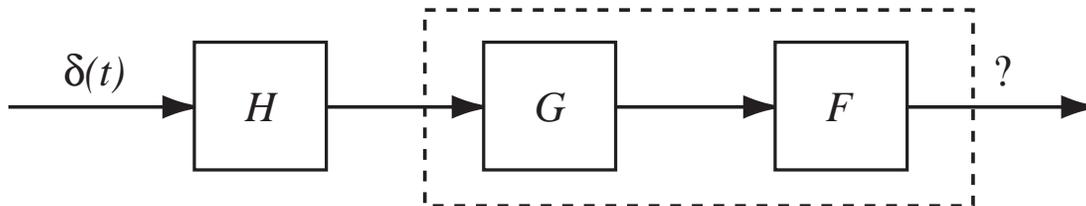
Consider a system that is itself a cascade of three systems. What is the impulse response of the system. That is, if the input to the system is an impulse, what is the output? *Do not use the associative or commutative property of convolution.*



1. $h(t) * [g(t) * f(t)]$
2. $[h(t) * g(t)] * f(t)$
3. $f(t) * [g(t) * h(t)]$
4. $[f(t) * g(t)] * h(t)$
5. More than one answer is correct
6. Don't know

Cascaded Systems III

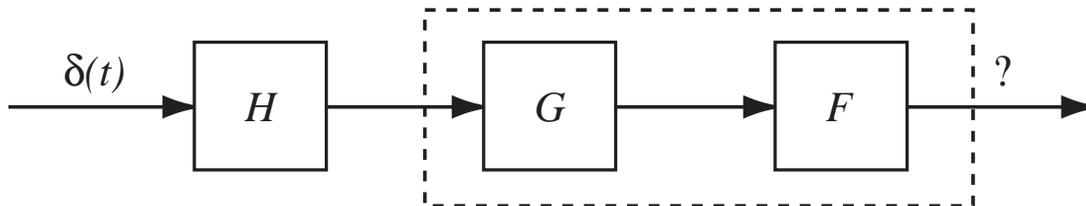
Consider a system that is itself a cascade of three systems. Treating the last two blocks together as a system, what is the impulse response of the entire system. *Do not use the associative or commutative property of convolution.*



1. $h(t) * [g(t) * f(t)]$
2. $[h(t) * g(t)] * f(t)$
3. $f(t) * [g(t) * h(t)]$
4. $[f(t) * g(t)] * h(t)$
5. More than one answer is correct
6. Don't know

Cascaded Systems III

Consider a system that is itself a cascade of three systems. Treating the last two blocks together as a system, what is the impulse response of the entire system. *Do not use the associative or commutative property of convolution.*



The correct answer is:

1. $h(t) * [g(t) * f(t)]$
2. $[h(t) * g(t)] * f(t)$
3. $f(t) * [g(t) * h(t)]$
4. $[f(t) * g(t)] * h(t)$
5. More than one answer is correct
6. Don't know