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the input. The transfer function,  $G(s)$  is represented in Figure 7 and equation (1).  $G(s) R(S) C(s)$  From Figure 1,,  $\Rightarrow$  Input,  $\Rightarrow$  Output Transfer function:  
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in principle we can recover  $f$  from  $F$  via  $f(t) = \frac{1}{2\pi j} \int_{\sigma - j\infty}^{\sigma + j\infty} F(s) e^{st} ds$  where  $\sigma$  is large enough that  $F(s)$  is defined for  $\text{Re}(s) < \sigma$ .  
surprisingly, this formula isn't really useful!  
The Laplace transform 3{13

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Laplace transform inverse Laplace solution transform  $y(x)$  solution  $Y(s)$  linear ODE  $F(x,y,y',y'')=0$  algebraic equation  $G(s,Y)=0$  solve Solution of ODEs by Laplace transform Figure 6.1: A schematic of the solution of ODEs by Laplace transforms Consider the behaviour of a function  $f$  near a point  $x_0$ , in particular consider the following limits

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hypothesis that it holds for any integer  $n \geq 0$ : now the integral-free part is zero and the last part is  $(n+1)/s$  times  $L(t^n)$ .

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