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$$A^{11} = \frac{j}{2\omega} \left[\frac{(-\omega^2 - js_1\omega - js_2\omega + s_1s_2) - (-\omega^2 + js_1\omega + js_2\omega + s_1s_2)}{(s_1^2 + \omega^2)(s_2^2 + \omega^2)} \right]$$

$$A^{11} = \left[\frac{(s_1 + s_2)}{(s_1^2 + \omega^2)(s_2^2 + \omega^2)} \right] \text{ similarly } B^{11} = \left[\frac{(s_1s_2 - \omega^2)}{\omega(s_1^2 + \omega^2)(s_2^2 + \omega^2)} \right]$$

using $s_1 + s_2 = \frac{-2\xi}{\tau}$ $s_1s_2 = \frac{1}{\tau^2}$

$$= s_1^2 + s_2^2 = \frac{4\xi^2}{\tau^2} - \frac{2}{\tau^2} = \frac{2(2\xi^2 - 1)}{\tau^2}$$

$$A^{11} = \frac{A\omega}{\tau^2} \left[\frac{-\frac{2\xi}{\tau}}{\frac{1}{\tau^4} + \frac{2\omega^2}{\tau^2}(2\xi^2 - 1) + \omega^4} \right]$$

$$= \frac{-2A\omega\xi}{\tau^3} = \frac{-2A\omega\xi\tau}{(1 - (\omega\tau)^2)^2 + (2\xi\omega\tau)^2}$$

$$\text{and } B^{11} = \frac{A\omega}{\tau} \left[\frac{\left(\frac{1}{\tau^2} - \omega^2\right)}{\omega \left(\left(\frac{1}{\tau^2} - \omega^2\right)^2 + \left(\frac{2\xi\omega}{\tau}\right)^2 \right)} \right]$$

$$= \frac{A(1 - (\omega\tau)^2)}{(1 - (\omega\tau)^2)^2 + (2\xi\omega\tau)^2}$$

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