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137. Contents vii Other bipolar transistor types  
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 Using  $r_{BE}$  to design a circuit is a dangerous practice as it depends on temperature and varies from transistor to transistor (even if they are the same type of transistor). • Input

impedance  
 The input impedance of the common emitter amp can be calculated from the following equivalent circuit:  

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 ...  
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following equivalent circuit:  $V_{in} R_1 R_2 R_{tin} 1 R_{in} = 1 R_1 + 1 R_2 + 1 R_{tin} R_{tin}^a \dots$

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