Concept Question 3-11: Why doesn't a strictly proper transfer function have a BIBO stable and causal inverse system?

If **H**(**s**) is strictly proper, then the numerator polynomial of **H**(**s**) has smaller degree than the degree of the denominator polynomial. Then the transfer function of the inverse system **G**(**s**) = 1/**H**(**s**) is strictly improper, and must be unstable (see Concept Question 3-10).