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Advanced Stress Analysis & FEA (PT)

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Question 4 (e) Continued...

These are the theories of Goodman, Geber and Soderburg. Geber's theory is most ~~appe~~ optimistic whereas Soderburg is most conservative. As a result Soderburg's theory provides a margin of safety. In reality, experimental results generally fall between the region of Goodman and Geber. The major difference with Soderberg's theory, rather than the other two is that the yield strength of the material is considered rather than the tensile strength of the material. With ~~Good~~ Goodman's equation otherwise identical, it is no surprise that ~~Soder~~ Soderburg is more conservative.