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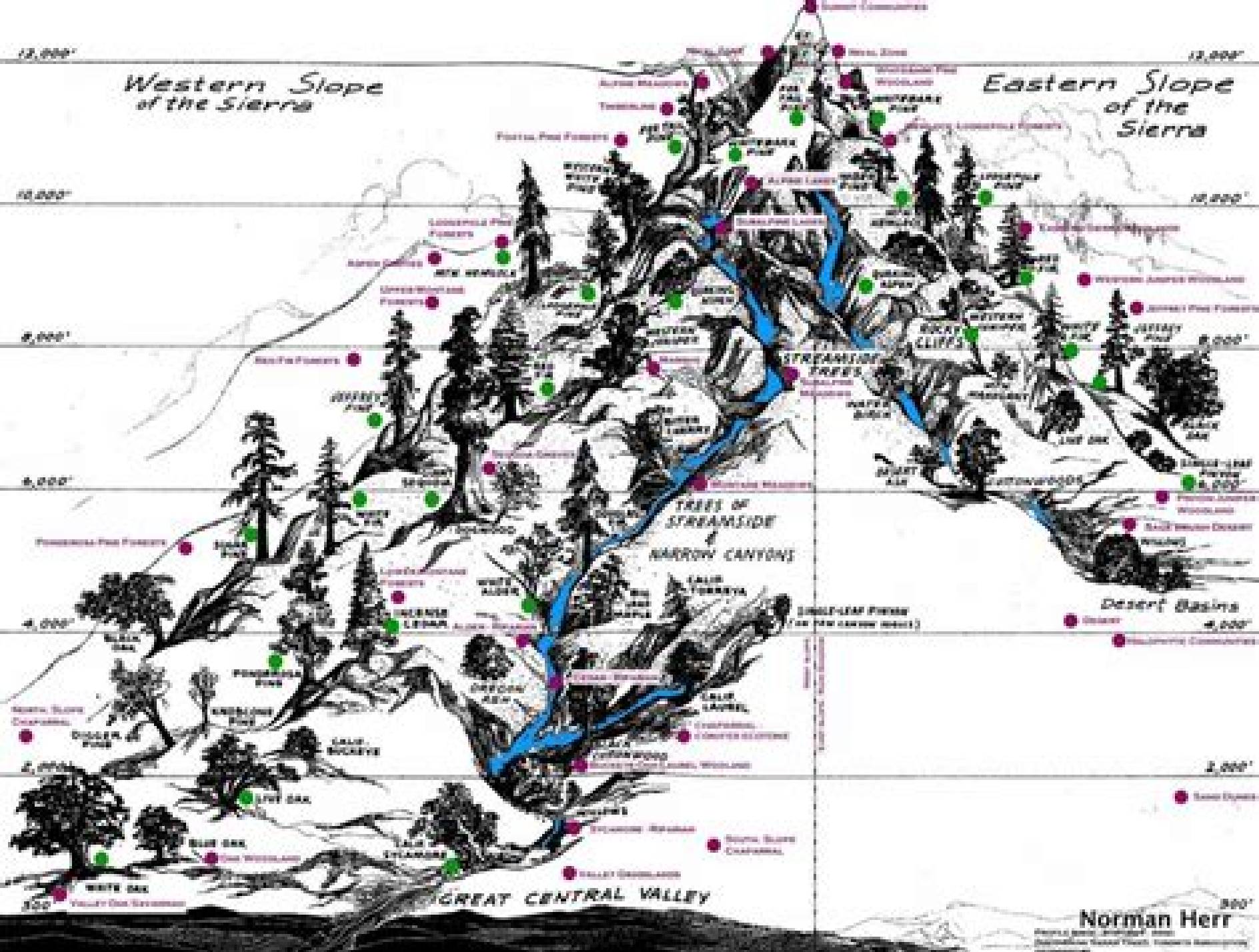
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Huangqi Zhang

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web analysis of these hooks to determine the areas with high stress i e failure points and those with low stresses these are potential points for material removal weight reduction and reduced costs

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web bending stresses combined with tensile stresses weakening of hook due to wear plastic deformation due to overloading and excessive thermal stresses are some of the other reasons for failure hence continuous use of crane hooks may increase the magnitude of these stresses and eventually result in failure of the hook

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web nov 12 2018 the stress analysis of a hook crane submitted to some vertical static force is a simple fem problem approached here using solidworks simulation software