

OWEN EVANS

MATERIALS AND INTRODUCTION TO PROCESSES

ACMATHON

4. AS THE CAMBER WILL MOST LIKELY BE A BEAM SUPPORTED ONLY ONE END, THE GUIDELINE E/P WILL BE USED.

THIS GUIDELINE DISCTS THE TOP OF THE 'TECHNICAL CERAMICS', THE ALUMINIUM ALLOYS OF THE 'COMPOSITES' MATERIALS, 'NATURAL MATERIALS' OF WOOD AS WELL AS SOME RIGID POLYMER 'FOAMS'

ALL OF THESE MATERIALS HAVE A GOOD STRENGTH RELATIVE TO WEIGHT, WITH A POSITIVE WEIGHT TO STRENGTH CORRELATION.

b. ALTHOUGH FOAMS HAVE A GOOD STRENGTH TO WEIGHT RATIO, THIS IS LIMITED STRENGTH DUE TO ITS LIGHT

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