

Bi-axial fatigue analysis of polymers in submerged conditions

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Engineering and Physical Sciences Research Council

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Flexible devices: Bi-axial mode of deformation

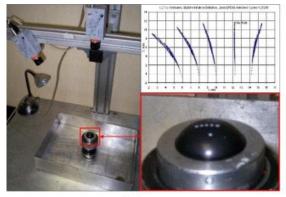


Bombora's mWave



AWS-III

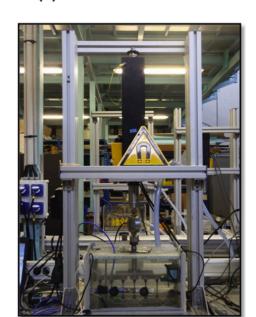
Fatigue analysis: State of the art





(b)

(a)



Equi-biaxial (Dublin, Ireland)

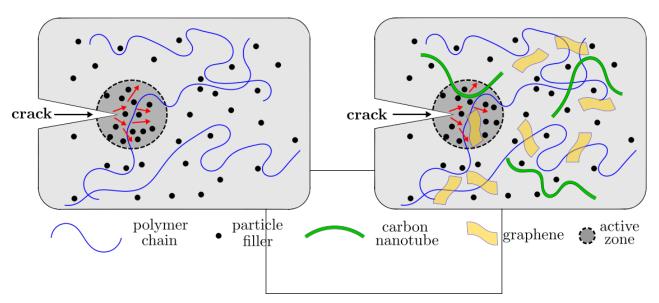
Uni-axial (IFREMER, France)



Biaxial fatigue analysis with carbon nanotube filler polymers



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Fatigue life enhancement around 40%-100% compared to carbon black-filled natural rubbers



