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(// // //)

ABAQUS

(FEM)

R3D4

C3D8R

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(ABAQUS/CAE Version 6.4)

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$$\bar{\sigma} = 32.1\bar{\varepsilon}^{0.20} MN/m^2$$

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$$\bar{\sigma} = 32.1(\bar{\varepsilon} + 5 * 10^{-4})^{0.20} MN/m^2$$

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R3D4

C3D8R

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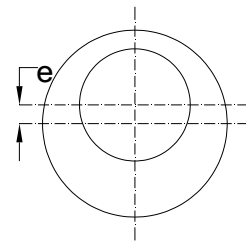
$e\%=(e/R)*100$

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	ca-3	,		,	,
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	sr-5			,	,
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	cr-7			,	,
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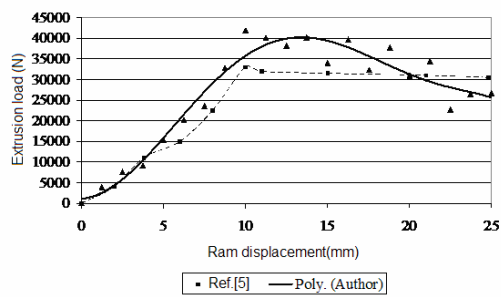
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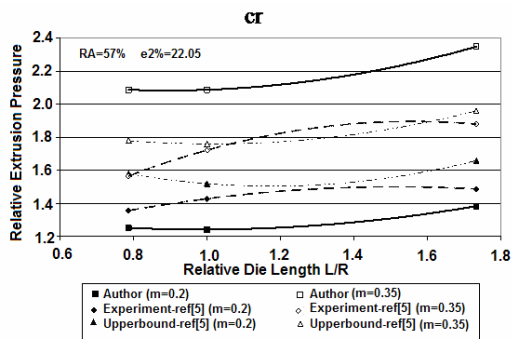
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cr-2



cr-2



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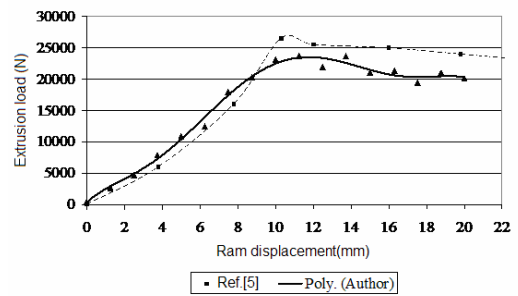
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cr-1

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	ca-1			,
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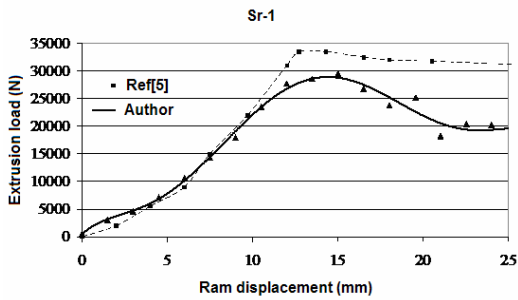
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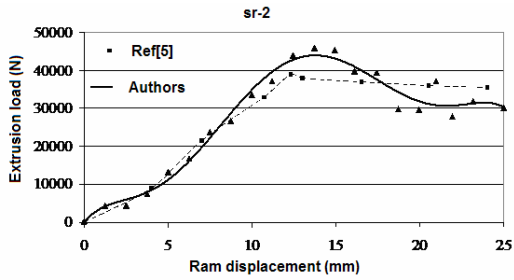
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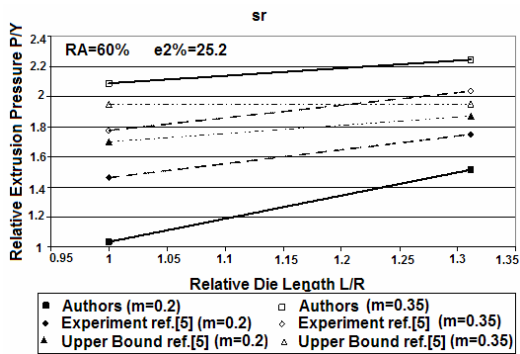
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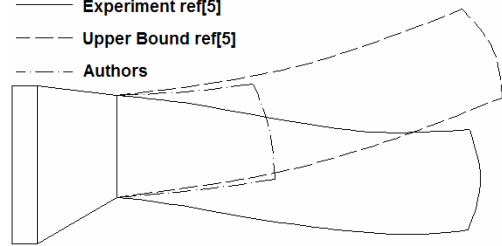
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cr-2

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— Experiment ref[5]
 - - - Upper Bound ref[5]
 - - - Authors



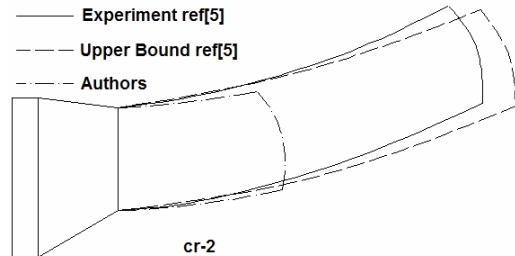
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— Experiment ref[5]
 - - - Upper Bound ref[5]
 - - - Authors



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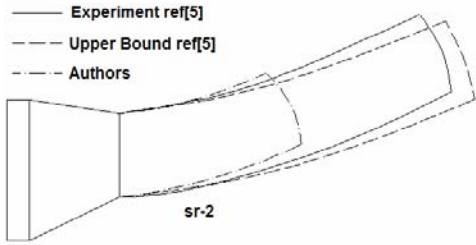
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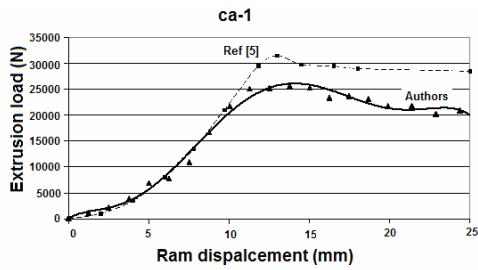
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	sr-3			,
	sr-4			,
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	sa-2			,

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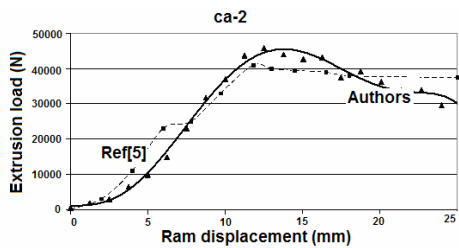
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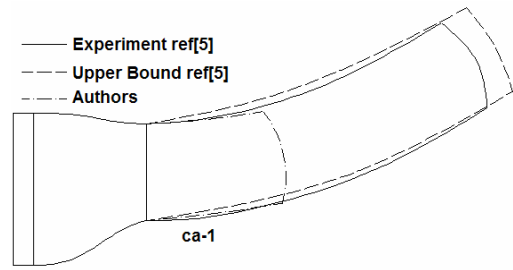
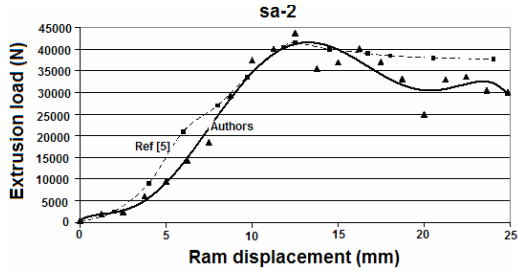
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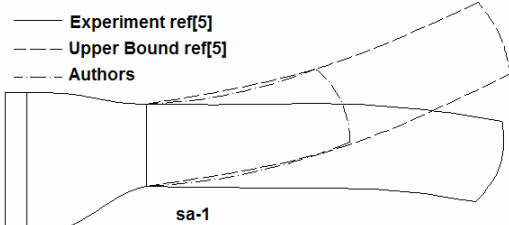
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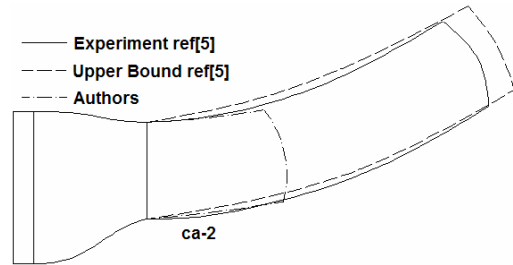


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sa-1



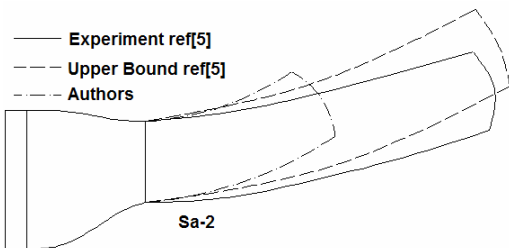
ca-2

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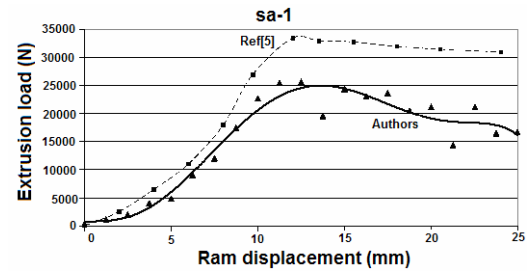
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sr-2		sa-2	()
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			sa-1

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- 1 - Ideal Work Method
 - 2 - Slab Method
 - 3 - Slip Line Field Method
 - 4 - Upper Bound Method
 - 5 - Finite Element and Finite Difference Method
 - 6 - Tellurium lead
 - 7 - Off-Centric
 - 8 - Polynomial surface die
 - 9 - Flat surface die
 - 10 - Ruled surface die
 - 11 - Advanced surface die
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