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spall fracture. This includes a discussion of the factors affecting spall, as well as the means by which these factors and their effects are used to predict

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It is clear that the spall process is a result of nucleation, growth and coalescence of microcracks when brittle fracture dominates and microvoids when ductile fracture is more probable. Ductile fracture occurs by nucleation of voids through particle-matrix debonding or through particle cracking.

### **Spall fracture: Mechanical and microstructural aspects**

Early investigations of spall fracture addressed development of a spall criterion, i.e., a mathematical rule for deciding whether or not a material body will fracture under given conditions of stress, strain, temperature, and other contin-

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Experimental and numerical investigations to understand the mechanisms of spall fracture of solids subjected to high strain rate loading have been going on for several decades.

### **Numerical Study of Spall Fracture in Solids Subjected to**

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When a projectile with high velocity impacts onto a target, several fracture modes (such as spall fracture, plug fracture, penetration fracture and so forth) appear in the target. Therefore, in order to identify an impact

fracture strength of materials, a particular type of impact experiments should ...

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The fracture type studied here is known as spalling and it is the result of high tensile waves travelling in the interior of a material body causing the opening of micro-voids or micro-cracks that will quickly evolve with time.

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different fracture resistance  $K(I,)$ , and if thle load duratton is short and comparable to the time required for a stre-qs wave to run thle lenith of A the crack, the crack tip stress Intensity may vary with tirlle.

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