

**Materials with memory: an overview on admissible
kernels in the integro-differential model equations**

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Materials with memory are modelled via integro-differential equations in which the integral term is introduced to take into account the past *history* of the material. The *classical* regularity requirements the kernel, which in viscoelasticity represents the relaxation function, is assumed to satisfy are considered. Aiming to model wider classes of materials, less restrictive assumptions are adopted.

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