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Autore	Kamal Mustafa
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Altri autori (Persone)	KamalMustafa MohammadUsama S
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Sommario/riassunto	Rapid Solidification Processing of molten metals and alloys has proved to be a reliable route for producing new and advanced materials. The Chill-Block Melt Spin (CBMS) technique is important because its simplicity, flexibility and perfection. High quality materials can be produced with lower costs, as compared to other routes, by refining the microstructure and trapping the nucleated (new) metastable phases. Melt-spun ribbons subsequently produced can then be consolidated to produce billets and sheets that can be used in many industries especially high-tech industries such as aerospace and ra