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Some properties of gr-multiplication ideals

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**Abstract:** In this paper, we study some of the properties of gr-multiplication ideals in a graded ring  $R$ . We first characterize finitely generated gr-multiplication ideals and then give a characterization of gr-multiplication ideals by using the gr-localization of  $R$ . Finally we determine the set of gr-P-primary ideals of  $R$  when  $P$  is a gr-multiplication gr-prime ideal of  $R$ .

**Key Words:** Graded Rings, Graded Ideals, Gr-primary Ideals and Gr-multiplication Ideals.

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