

### عنوان مقاله:

A New Technique in Recovering Corroded Pipelines Using Unidirectional Composites

## محل انتشار:

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#### خلاصه مقاله:

Repairing and maintenance of gas transmission pipelines have always been a major concern of the gas industry. Considering the obsolete and problematic nature of the old repairing methods, it seems necessary to present new methods of repairing that are safe and cost effective. In this paper we study a new method of repairing gas transmission pipelines using glass/epoxy composite materials. Using the numerical and analytical solutions, corroded gas pipes are stress analyzed and suitable composite along with the number and direction of needed layers for repairing the pipes are obtained. Employing unidirectional Glass/Epoxy composites, corroded pipes are finally repaired according to the result of the design and then tested based on standards. Laboratory results justify the .possibility of replacing old methods with the new one

**کلمات کلیدی:** Glass/Epoxy Composites, Transmission pipelines, Corrosion

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