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**Munir H. Nayfeh\* Oak Ridge National Laboratory.**  
**Oak Ridge, Tennessee 37830 Ali H. Nayfeh**  
**Virginia Polytechnic Institute and State**  
**University, Blacksburg, Virginia 24061 (Received**  
**29 September 1975; in final form 20 February**  
**1976) The method of multiple scales is used to**  
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Oak Ridge, Tennessee 37830 Ali H. Nayfeh  
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