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**Wenyang Feng\*** ([wfeng@trentu.ca](mailto:wfeng@trentu.ca)), Peterborough, ON , Canada, and **Ankai Liu**. *Existence of Solutions for Integral Equations with Changing Sign Green's Functions.*

We will introduce a new class of cone as a generalization of the compression cone technique for fixed-point index. As a result, the traditional method is shown to be more adaptable in applications. We prove new results for semi-linear integral equations. Applications are illustrated by examples. Limitations of such new method are also discussed. (Received September 16, 2018)