### **Accepted Manuscript**

Analysis of statically indeterminate non-uniform bar problem in post elastic domain by an iterative variational method

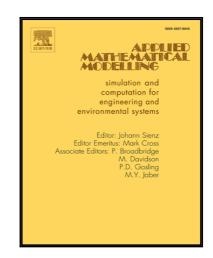
Priyambada Nayak, Kashi Nath Saha

PII: \$0307-904X(17)30408-0 DOI: 10.1016/j.apm.2017.06.016

Reference: APM 11820

To appear in: Applied Mathematical Modelling

Received date: 6 July 2016 Revised date: 17 May 2017 Accepted date: 12 June 2017



Please cite this article as: Priyambada Nayak, Kashi Nath Saha, Analysis of statically indeterminate non-uniform bar problem in post elastic domain by an iterative variational method, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.06.016

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

#### ACCEPTED MANUSCRIPT

#### **Highlights**

- Elasto-plastic analysis of statically indeterminate non-uniform bar is proposed.
- Analysis done for bilinear and trilinear material model using IVM with DDM.
- Total deformation theory and von-Mises criterion are adopted.
- Proposed method is validated and tested for the stability of its iterative scheme.
- Initiation of yield front and its growth for different bar geometries is addressed.

# دريافت فورى ب

## ISIArticles مرجع مقالات تخصصی ایران

- ✔ امكان دانلود نسخه تمام متن مقالات انگليسي
  - ✓ امكان دانلود نسخه ترجمه شده مقالات
    - ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
  - ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
  - ✔ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
    - ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات