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**Title : Times New Roman 12pt, Bold**

Authors : *(Times New Roman 10 pt, Bold&Italic)[1]* , *(Times New Roman 10 pt, Bold&Italic)[2]...*
*Affiliations 1- (Times New Roman 10 pt, Italic)[2]*
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3      (All headings should be prepared using **11 pt Times New Roman, bold)**

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Each paper must be accompanied by a maximum 200 words abstract, written as a single paragraph, having 3.5 cm left and right margins. The abstract should be a self-contained, capsule description of the paper including the motivation, problem statement, approach taken, results and conclusions. Abstract should be prepared in 12 pt Times New Roman. Place it with a distance of at least 9 - 12 cm from top of the page.

**Keywords:** Maximum 6 words separated by commas, Times New Roman 10 pt.

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**Paper Length**

The submitted paper, including figures and tables should not exceed 8 pages. Please contact the Scientific Committee Chairman in case your need more than 8 pages.

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Figures and drawings may be placed at the end of the paper. Drawings must be clear and sharp. Letters, numbers, and legends in illustrations should be large enough and legible. Each figure must have a number and a caption. Captions should be placed below the figures and should be in 12 pt Times New Roman. Make sure that all figures are referred to in the text.

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References should be cited as [n] in the paper where "n" is the reference number. The reference list should be written in 10 pt Times New Roman. Reference list should appear at the end of the paper (before tables and figures) and the references are to be numbered in the order they are appear in the paper. Only references, which are cited in the paper, should be included. For each reference, adequate details should be given according to the following examples. If you are indicating a document published in Persian language, please add the expression '(in Persian)' at the end. Here are some examples:

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Use the standard abbreviations for journal names given in the international standard ISO 4. Give the volume number , the year of publication and the first page number.

**[Example]**

[1] A. Najafizadeh; J. J. Jonas, The Strain Dependence of Post-Deformation Softening during the Hot Deformation of 304H Stainless Steel, ISIJ Int., 3(2006) , 1.

**- Conference  Proceedings**

Give  the  title  of  the  proceedings , the  editor's  name if  any, the  publisher's  name, the place  of  publication , the  year  of  publication  and  the  page  number.

[Example]
[2] Y.  Chino,  K.  Jwni and  S.  Asai , Proc.  Of  3rd  Int. Symp.  On  Electromagnetic Processing  of  Materials, ISIJ, Tokyo , (2000),279.

**- Books**

Give  the  title, the  volume  number , the editor's name if any, the  publisher's  name, the place  of  publication, the year  of publication  and the  page  number.

[Example]
[3] W.  C.  Leslie : The   Physical   Metallurgy   of   Steels, McGraw.Hill , New York,(1981),621.
[4] U.  F.  Kocks, A.  S. Argon  and  M.  F.  Ashby, Progress  in   Materials  Science , Vol. 19 , e.d.  by  B. Chalmers, Pergamon  Press Oxford(1975),146.

# Vibrothermography Technique for the Inspection of Rolled Strip Steel

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## Abstract

The damages in the continuous casting slabs can be developed during rolling technology. Vibrothermogrphy is a promising technique that uses ultrasonic elastic waves to locally stimulate defects on solid. This technique allows for defect selective imaging using thermal waves that are generated by ultrasound waves. This paper presents finite element modeling of vibrothermography to obtain a comprehensive understanding in defect caused by rolling technology. We developed Finite element model for a subsurface defect subjected to ultrasonic waves.

**Keywords:** Hot & cold rolled strip, Rolling, Undersurface Defects, Vibrothermography.

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