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rolling and applications of rolling

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Residual Stresses In Cold Formed
Residual stresses are initial stresses existing in cross sections without application of an external

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load such as stresses resulting from manufacturing processes of metal structural members by cold forming. Residual stresses produce internal membrane forces and bending moments, which are in equilibrium inside the cross sections.

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Residual Stress - an overview |
ScienceDirect Topics
Material properties and residual
stresses of cold-formed octagonal
hollow sections 1. Introduction.
Tubular structural members have

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been widely adopted in civil structural applications owing to their... 2. Material property investigations. In order to investigate the effect of fabrication process on ...

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Steel Members and residual stresses of cold-formed ...

An extensive experimental investigation of the residual stresses in cold-formed steel members is presented. The electrical discharge machining (EDM) technique is used to cut

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coupons for residual stress
measurement.

Residual Stresses in Cold-Formed
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which are subjected to residual
cooling stresses, cold- formed

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tubes are subjected to elastic, plastic and deformational residual stresses in the longitudinal and circumferential directions and, to some extent, to welding residual stress. Owing to these complex initial stresses,

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RESIDUAL STRESSES IN COLD- FORMED TUBES

For a cold-formed steel section, the residual stresses are mainly caused by a cold-bending effect during the forming process. Due to the difference in the

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manufacturing process between these two groups of sections, the residual stresses in a cold-formed section may be quite different from those in a hot-rolled shape.

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Residual stresses in cold-formed circular hollow sections are derived from three sources: (1) the coiling-uncoiling process, (2) the cold bending of the roll-forming process and (3) the

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thermal effect of welding. This
thesis is concerned with the

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Abstract Residual stresses in cold-
formed, circular, steel tubes are

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analysed on the basis of
mathematical plasticity. The
correlation between this
analytical p...

Residual stresses in cold-formed
tubes - B Kato, H Aoki, 1978

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Residual stress patterns in cold formed sections (press-braked and cold-rolled) are linked primarily to plastic deformation, which can occur during sheet production and in the processes involved to form the sheet material into sections. Sheet

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material used for cold forming
can be either hot rolled or cold
reduced, the latter causing
substantial plastic deformation.

residual-stress

Residual stresses Background and

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peculiarities ... □ In cold-formed steel design, it is often not practical to provide load bearing and end bearing stiffeners. This is always the case in continuous sheeting and decking spanning several support points.

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Cold-formed Steel Design -
Eurocodes

Residual stresses are stresses that remain in a solid material after the original cause of the stresses has been removed.

Residual stress may be desirable

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Steel Members or undesirable. For example, laser peening imparts deep beneficial compressive residual stresses into metal components such as turbine engine fan blades, and it is used in toughened glass to allow for large, thin, crack- and scratch-resistant glass displays on

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Smartphones. However,
unintended residual stress in a
designed structure may cause i

Residual stress - Wikipedia

The measurements showed yield
strength magnitude tensile

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residual stresses on the inner surface. The outer surface had significantly lower compressive residual stresses. The residual stress state was assumed to form due to very high degree of plastic deformation of the corners during the cold-forming process.

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FATIGUE CRACK PATHS AND
RESIDUAL STRESSES IN COLD
FORMED ...

Residual stresses in cold-formed members may play a significant role in determining their

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behaviour and strength, and have traditionally been obtained by laboratory measurements.

Prediction of residual stresses in cold formed corners ...

Residual stresses in cold-formed

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Steel Members may play a significant role in determining their behaviour and strength, and have traditionally been obtained by laboratory measurements. This paper presents the results of research which forms part of a larger study on the theoretical

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predictions of residual stresses in
cold-formed sections.

Residual stresses in steel sheets
due to coiling and ...

The distributions of residual
stresses in the flat portions of a

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cold-formed section are highly dependent on the initial coil diameter of the metal sheet used for fabrication, so very different residual stresses can arise in the flat portions of otherwise identical cold-formed sections as a result of different initial coil diameters,

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which are unknown to designers
and users of these sections.

Residual stresses in cold-formed
steel sections and their ...

TUBES For a cold-formed steel
section, the residual stresses are

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Steel Members mainly caused by a cold-bending effect during the forming process. Due to the difference in the manufacturing process between these two groups of sections, the residual stresses in a cold-formed section may be quite different from those in a hot-

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Moen, C.D., Igusa, T., Schafer,
B.W.J.T.-W.S.: Prediction of
residual stresses and strains in

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cold-formed steel members. Thin-walled Struct. 46(11), 1274–1289 (2008) Article Google Scholar 10. ASCE: Specification for the Design of Cold-Formed Stainless Steel Structural Members. American Society of Civil Engineers, Reston (2002)

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Forming-Induced Residual Stress
and Material Properties of ...
Cold formed sections usually have
residual stresses caused by roll
forming. When compared to
stresses caused by the working

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load, especially for compressed members, the effects of residual stresses...

Experimental investigation of residual stresses in cold ...
residual stresses in a cold-formed

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Steel Members channel section is outlined.

Finally, the yielding propagation in an axially compressed cold formed steel section is described, and an equation for predicting the extent of yielding is derived.

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