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 T_s = tensile strength of
the external thread (bolt)
material (psi) T_n =
tensile strength of the

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internal thread (hole) material (psi). If the factor J is less than or equal to 1, the length of engagement is adequate to prevent stripping of the internal thread.

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Bolted Joints and it was written by John Bickford (Editor), Sayed Nassar (Editor). This particular edition is in a Hardcover format. This books publish date is Apr 28, 1998 and it has a suggested retail price of \$319.00.

NCSX
SPECIFICATION
Handbook for Bolted

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It examines key issues affecting bolting in the automotive, pressure vessel, petrochemical, aerospace, and structural steel industries. The editors have successfully created a useful rather than scholarly handbook with chapters written in a straightforward, how-to-do-it manner.

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Handbook of Bolts and Bolted Joints by John H. Bickford

Bolts can be made from many materials, but most bolts are made of carbon steel, alloy steel, or stainless steel. Stainless steels include both iron- and nickel-based chromium alloys.

Titanium and aluminum bolts have limited usage, primarily in the

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aerospace industry.

Carbon steel is the
cheapest and most
common bolt material.

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organization and
thorough index enhances
its usefulness. Those new
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theory would probably

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Handbook of Bolts and Bolted Joints. Presenting time-tested standard as well as reliable emerging knowledge on threaded fasteners and joints, this book covers how to select parts and materials, predict behavior, control assembly processes, and solve on-the-job problems.

Bolted Joint Analysis |

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BOLTING PRELOAD

During assembly in the OEM shop, the BOP/LRMP stack is “ built up ” by placing one RAM on top of another and bolting them together at the flanges. A ring gasket is placed

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between the flange faces and bolts (or studs and nuts) are tightened.

Appendix J: Bolting Preload | High-Performance Bolting ...
The bolts in a tension joint must act like clamps. The tightening of the bolt and nut produces a tensile pre-stress, which is approximately equal to

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the compressive stress introduced in the joint material. The behavior and life of the joint depends on how tightly the bolts clamp and how long they can maintain their preload.

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It examines key issues
affecting bolting in the

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automotive, pressure vessel, petrochemical, aerospace, and structural steel industries. The editors have successfully created a useful rather than scholarly handbook with chapters written in a straightforward, how-to-do-it manner.

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bolt tension

measurement M (for a specified bolt, tension), that provides the most realistic parameter for A_t . At these very small levels of displacement it is understandable that variation in the engineering environment can be very significant to the reliability of any reading or indication.

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The handbook's logical organization and thorough index enhances its usefulness. Those new to the subject or seeking theory would probably get more from An Introduction to the Design and Behavior of

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knowledge on threaded fasteners and joints, this book covers how to select parts and materials, predict behavior, control assembly processes, and solve on-the-job problems.

**BOLT TENSION
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Thread shear is an

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important failure mode for a bolted joint, and occurs when the threads shear off of either the bolt (external thread shear) or off of the nut or tapped part (internal thread shear). There should be enough engagement between the bolt threads and internal threads that the bolt fails in tension before the threads shear.

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