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Damage Mechanisms  
Affecting Fixed Equipment  
In The Refining Industry

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**Carbons** *API RP 571 High*

*Temperature Hydrogen Attack API 570*

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## PART 2] Affecting Fixed Equipment

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Impact Operations API 577 - Welding  
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Cooling Water Corrosion LIVES  
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~~571 Spheroidization (Softening)~~  
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API RP 571-2020 (3rd Edition) is the latest edition that describes damage mechanisms affecting equipment in the refining and petrochemical industries. A key first step in managing

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## Damage Mechanisms

Affecting safety and reliability is the identification and understanding of the various damage mechanisms. Proper identification of damage mechanisms is also required when implementing the API Inspection Codes (API 510, API 570, API 653) and in carrying out risk based inspection (RBI) per API

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580 and API 581.  
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API RP 571, Damage Mechanisms  
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Refining Industry, Third Edition, is a  
recommended practice developed and

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published by the American Petroleum Institute (API) that provides... Codes and Standards. Codes and Standards are the rules and regulations released by both governmental and non-governmental agencies in order to establish an agreed upon method of operation for conducting business.

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API Publishes New Edition of RP 571 -  
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2 API RECOMMENDED PRACTICE  
571. — Inspection and  
Monitoring—Guidance for  
nondestructive examination (NDE) and  
other methods for detecting,

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## Damage Mechanisms

monitoring, characterizing, sizing, and determining the severity or extent of damage or deterioration. — Related Mechanisms—A list of related damage mechanisms.

Damage Mechanisms Affecting Fixed Equipment in the ...

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## Damage Mechanisms

Description / Abstract: API RP 571, 3rd Edition, March 2020 - Damage Mechanisms Affecting Fixed Equipment in the Refining Industry.

This recommended practice discusses damage mechanisms applicable to oil refineries; however, much of the information herein can also be applied



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## Damage Mechanisms

to petrochemical and other industrial applications, as the user deems appropriate.

API RP 571 : Damage Mechanisms  
Affecting Fixed Equipment ...

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5-2 API Recommended Practice 571

September 2010 \_\_\_\_\_ c) The rich

amine side of the lean/rich

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## Damage Mechanisms

exchangers, hot lean amine piping, hot rich amine piping, the amine solution pumps, and the reclaimers are also areas where corrosion problems occur. 5.1.1.1.5 Appearance or Morphology of Damage

### SECTION 5.0 REFINING INDUSTRY

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## DAMAGE MECHANISMS

Examples of the types of damage mechanisms covered by API RP 571 include, but are not limited to: wet H<sub>2</sub>S cracking, reheat cracking, sulfuric acid corrosion, polythionic acid stress corrosion cracking, dissimilar metal weld (DMW) cracking, CO<sub>2</sub> corrosion,

# Access Free Api Rp 571 Damage Mechanisms Affecting Fixed Equipment In The Refining Industry corrosion under insulation (CUI), caustic ...

## API RP 571 - Damage Mechanisms Affecting Fixed Equipment ...

- API 571 –Damage Mechanisms  
Affecting Fixed Equipment in the  
Refining Industry (2ndEdition 2011) •

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NBIC Part 2 Section 3 Corrosion and  
Failure Mechanisms (2017 Edition) •  
API 580/581 Risk Based  
Inspection/RBI Technology BRD • API  
584 Integrity Operating Window  
(1st Edition 2014) • API 970 Corrosion  
Control Documents (Draft)

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## Damage Mechanisms

### PSM -Refining Damage Mechanisms

#### 101 Jim Riley

Exam questions for the API 571

Corrosion and Materials certification are derived from API RP 571 Damage Mechanisms Affecting Fixed Equipment in the Refining Industry. The Body of Knowledge for the API



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571 exam consists of the entire API RP 571, 2nd edition (2011), with the exception of the following sections:  
1.1, 3.1, 4.1 and 5.2.

[API | API 571 - Corrosion and Materials](#)

API RP 571 was created to help link

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Affecting Fired Equipment  
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these technologies and to provide better access to information that is located in one concise source covering damage mechanisms. This new recommended practice also aids in understanding damage being inspected for in API 510/570 and API Std. 653.

# Access Free Api Rp 571 Damage Mechanisms Affecting Fixed Equipment

## API-571-Damage-Mechanisms

API Recommended Practice 571, Damage Mechanisms Affecting Fixed Equipment in the Refining Industry, has been published to provide guidance to pressure equipment integrity personnel. The RP will help in

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## Damage Mechanisms

overall management of pressure equipment integrity from identification of damage to conducting examinations.

### API | Recommended Practice 571

API Publications: API 510, Pressure Vessel Inspection Code API RP 571,

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## Damage Mechanisms

Damage Mechanisms Affecting  
Equipment in Refilling Industry API RP  
572, Inspection of Pressure Vessels  
API RP 576, Inspection of Pressure-  
Relieving Devices API RP 577,  
Welding Inspection and Metallurgy B.  
ASME Publications: Section V,  
Nondestructive Examination Section

# Access Free Api Rp 571 Damage Mechanisms VIII ... Affecting Fixed Equipment In The Refining Industry

that the inspector is expected to be  
able to find in the ...

API RP 571. April 1, 2011. Damage  
Mechanisms Affecting Fixed  
Equipment in the Refining Industry.  
This recommended practice provides

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general guidance as to the most likely damage mechanisms affecting common alloys used in the refining and petrochemical industry and is intended to introduce the... API RP 571.

API RP 571 - Damage Mechanisms

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## Damage Mechanisms

### Affecting Fixed Equipment ...

This recommended practice discusses damage mechanisms applicable to oil refineries; however, much of the information herein can also be applied to petrochemical and other industrial applications, as the user deems appropriate. It is up to the user to



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## Damage Mechanisms

determine the applicability and appropriateness of the information contained herein to their facility.

API RP 571 is a reference document ...

API RP 571 : 2020 : Damage Mechanisms Affecting Fixed ...

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## Damage Mechanisms

This Damage Mechanisms training course covers an overview of basic metallurgy and a description of the most common refining processes. Its major focus includes detailed discussions of the key refining damage mechanisms addressed in API RP 571 and examples of equipment damage

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## Damage Mechanisms

and failures. It also includes discussion of typical Non-Destructive Evaluation (NDE) methods applicable for detection of damage related to the specific damage mechanisms.

Damage Mechanisms - The Equity  
Engineering Group, Inc.

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Damage Mechanisms  
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American Petroleum Institute

This document covers inservice heat exchanger tubing damage mechanisms found - in API RP- 571 and other applicable codes Codes and specifications. Tube diameters and

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Damage Mechanisms

wall thicknesses will vary according to applicable standards.

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