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# User Guide for the Corrosion Atlas

With reference to the classification, the case history coding is as follows. The first two digits of the code refer to the type of the material of the object attacked, the second two digits refer to the system from which the corroded part originates, the third two digits refer to the phenomenon, and the last two digits refer to the numerical sequence in those instances which several sheets deal with the same subject.

The description of each case history is summarized on a single sheet, provided with one or more colored figures and pictures.

Items reported are as follows:

|  |  |
| --- | --- |
| Type of Material | The material data available (see main classification). |
| System | Data on the industrial plant, installation, or facility from which the corroded part originates (first subclassification). |
| Name of the Part | Information about the corroded part (such as dimensions, processing, coating, painted, heat treated, etc.) |
| Phenomenon | The type of corrosion or attack to which the case in question is attributable (second subclassification). |
| Appearance | Description of the appearance of the corrosion or attack. **(Text only to be inserted here please. Do not place your figures/pictures in this category.)** |
| Time in service | The life span of the corroded part before the corrosion was discovered (the real time in which the corrosion took place may be shorter). |
| Environment | The definition of the environment (media) with the data relevant to the corrosion process. |
| Causes | The most probable causes of the corrosion or attack. |
| Remedy | The advice given or the measures taken in the case in question, often supplemented by alternative options. |

Possible ways to use this atlas were as follows:

* Study the corrosion basic (Part I of the introduction) before studying the case histories.
* Study a specified corrosion phenomenon of a specified material in a specified system (installation) with the aid of the classification.
* Study the corrosion phenomena of a specified material by way of the main classification.
* Study a specified corrosion phenomenon of a specified material by way of the phenomena index (the second subclassification).
* Study the corrosion phenomena by system and part based on the applied material, the environment (media), and the appearance by way of the systems index.
* Study a specified corrosion phenomenon or case history mentioned in the introduction (Part II Corrosion Topics or Part III Corrosion in Water-Bearing Systems).

For more information about corrosion, refer to the detailed bibliography or additional resources listed within the case studies.