ASM Handbooks Online™

Publisher
ASM International (American Society for Metals)

Contents
ASM Handbooks Online features the complete content of thirty ASM Handbook volumes, several ASM Handbook supplements, and two ASM Desk Editions.
ASM Handbooks Online™ is the industry's best known and most comprehensive source of information on ferrous and non-ferrous metals and materials technology and to include coverage of nonmetallic structural materials — including plastics, ceramics, and composites.

- Peer-reviewed, trusted information in every area of materials specialization
- Over 25,000 pages of articles, illustrations, tables, graphs, specifications and practical examples
- Updated quarterly

Type
Full-text database

Search Language
English

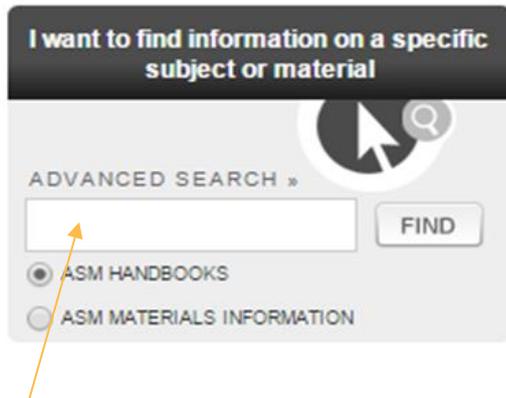### Geographical coverage
International

Document type
Over 25,000 pages of articles, illustrations, tables, graphs, specifications and practical examples

Truncation
Star (*) can be used as a truncation character

[Help Function](#)
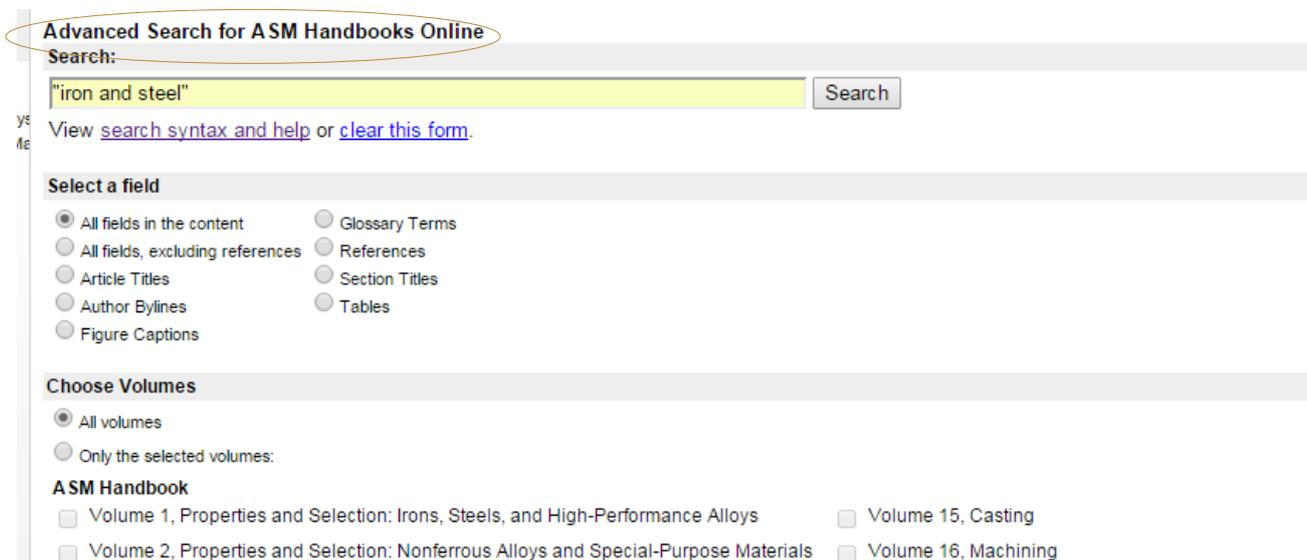
Start your search here

Basic search box searches for a subject through all 24 textbook.

Use the * wildcard operator if you want to replace any number of characters. It can be used in the middle or at the end of a term.

Search terms are "automatically" wildcarded. This feature known as stemming, takes each search phrase and also looks for plurals, past tense, and other variant endings.

Use _Advanced search_ when you want to pinpoint your search to a specific volume or volumes, or if you want to limit your search to type of content, such as figures or tables. Use quotes (" ") to search for an exact phrase.

How to refine results

Use the _Refine Search_ at the top right corner of the search results. _Refine Search_ allows you to use the _Advanced Search_ to narrow your searching to key areas in the content.

Search tips

The Advanced Search form enables users to target searches to specific types of content and/or to specific volumes:

1. Type a query in the Search box
2. Select a specific field and/or specific volumes to be searched
3. Click on the **Search** button to initiate the search

Queries can consist of a single word or multiple words. To find an exact phrase, use quotation marks at the beginning and end of the phrase (for example, the query **"alloy steel"** finds content containing this exact phrase only; the query **alloy steel** will find sections where these two words appear in any position within a paragraph).

Any of the following search operators can be used:

Operator	Example Query	Function
AND	**iron AND steel**	Finds both words in the same paragraph
OR	**brass OR bronze**	Finds either word
NOT	**gold NOT silver**	Finds the first word but excludes content containing the second word.
NEAR	**cobalt NEAR alloy**	Finds content where the two words appear within 10 words of each other
*	**carbur***	Wildcard--matches any sequence of characters. The example query finds carburize, carburized, carburizes, carburization, carburizing, and so on

For additional information, refer to the sections Advanced Search and Searching Strategies in the Help file.

Printing articles from the search results

Open Tree	Search Results	Bookmark Page	Print Page	Clear Hits	Previous Hit	Next Hit

Volume 13A, Corrosion: Fundamentals, Testing, and Protection -> Modeling Corrosion Processes -> Mechanistic Models

< Previous section in this article   Next section in this article >

You can print articles and case history, but you can't save the articles on the computer.

If you want to save articles, do like this: copy and paste content from the main panel to a text editing, word processing, or other application. Highlight the information, and use the "edit-copy" feature in your browser to place a copy of the content into your Windows clipboard.