

### **ASTM Standards Collection**

# 美國材料試驗協會 工業標準資料庫

Virginia Chen

# 簡報網要

- 認識標準
- 資料庫介紹
- 操作使用說明
- 實際上線操作

# 認識標準

一、標準的意義

二、標準的效益

三、標準的層次

### 標準的意義

- 1.標準是一種單位、名稱、定義、符號、 常數、品質、尺度、安全、試驗方法、 互換性...等等的規格或標本。
- 2.與交易有關之生產活動,其所訂的一切 規範或標本,都可稱作標準。
- 3.標準是其效力所及的組織成員,全體共 同遵守之準則。

## 標準的效益(一)

 1.為達成某特定目的所訂之標準, 及運用這些標準的一切活動, 即為「標準化」。

## 標準的效益(二)

### 2.標準化後:

宣生產者可減少摸索與錯誤、 提高生產效率、穩定品質、發揮 經濟效益、提升產品的競爭能力外, 並使交易更加圓滿。 標準訂定形成,是品質管制重要的工作。

## 標準的效益(三)

- 圖消費者可購買優良品質及價廉的產品, 保障消費者權益。
- 宣政府可落實保障國民健康安全的政策, 提高生活品質,促進工業升級與經濟效 益發展,確保公共安全、排除貿易障礙 等功能,並節約國家整體資源。

## 標準的效益(四)

如無標準化,會使產品品質不均勻、

產量減少、生產成本增加或不經濟,

甚至...降低產品使用壽命與安全性。

## 標準的層次(一)

- 國際標準
- 國家標準
- ●團體標準

## 標準的層次(二)

●國際標準

各國標準團體共同制定的標準。

如:國際標準組織 -- ISO

國際電工委員會 -- IEC

國際電信聯盟 -- ITU

## 標準的層次(三)

• 國家標準

政府機構或全國性標準組織,依一定程序所制定之標準,適用於該國領域。

如:美國國家標準 -- ANSI

英國國家標準 -- BSI

德國國家標準 -- DIN

中國國家標準 -- CNS

## 標準的層次(四)

### ●團體標準

各專業團體訂定之標準,適用於 它所管轄的領域。

如: 美國材料測試協會標準 -- ASTM 美國自動車工程師協會標準 -- SAE 美國電子電機工程師協會標準 -- IEEE

### 標準資料查詢--其他工程相關標準

- ASTM資料庫 (ASTM標準)SAE資料庫 (SAE標準)美國材料試驗協會美國自動車工程師協會
- IEL資料庫 (IEEE標準) 美國電子電機工程師協會
- DIN資料庫 (DIN標準) 德國國家工業標準
- AWS資料庫 (AWS標準)美國焊接學會標準

### **ASTM Standards Collection**

標準資料庫介紹

http://www.astm.org

## ASTM 組織簡介

ASTM	American Society for Testing and Materials (美國材料試驗協會)
成立 時間	1898 年
學會 性質	非營利性的標準學術團體

### ASTM 組織概況

- 主要制定130多個專業領域的標準
- 有35000名會員,來自100多個國家的 生產者、消費者、政府機關和學術代表
- 經常組織學術討論會,舉辦實驗室專題活動,召開標準編制會議等

### ASTM 工業標準資料庫

標準資料庫內容包含:金屬、石油、紡織、化工、建築、 環境、材料等領域

### ASTM Standards Collection 工業標準

完整目錄 - 含最新.修訂.建立中.被淘汰的文件

### 全文影像-

- 1. ASTM Standards Basic : Active standards only.
- 2. ASTM Standards Plus: Active Standards Plus Redlines, Historicals, and Withdrawn Standards.

### 貳.資料庫介紹

### ASTM Standards 標準 - 形式

- Technical Specification (技術規範)
- Guidance (指南)
- Test Method (試驗方法)
- Classification (分類法)
- Standard Practice (標準慣例)
- Terminology (術語)
- Definition (定義)
- Test Report (試驗報告)
- 還包括:試驗方法可使用性

### 貳.資料庫介紹

### ASTM標準 - 主題範圍

- 第一類 鋼鐵產品
- 第二類 有色金屬
- 第三類 金屬材料試驗方法及分析程式
- 第四類 建設材料
- 第五類 石油產品、潤滑劑及礦物燃料
- 第六類 油漆、相關塗料和芳香族化合物
- 第七類 紡織品及材料

### 貳.資料庫介紹

### ASTM標準-主題範圍

- 第八類 塑膠
- 第九類 橡膠
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- 第十一類 水和環境技術
- 第十二類 核能,太陽能
- 第十三類 醫療設備和服務
- 第十四類 儀器儀錶及一般試驗方法
- 第十五類 通用工業產品、特殊化學製品和消耗材料

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National Standards Body of Congo Signs MOU with ASTM International



The national standards body of Congo signed a Memorandum of Understanding (MOU) with ASTM International on May 18. Guillaume Ligongo Maliba, Director of Standardization Management, Office Congolais de Controle, and James Thomas, President, ASTM International signad the MOU

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#### New Initiatives

New ASTM Practice Will Consistently Evaluate Indoor Air Quality Complaints



A new ASTM International standard will provide a method to consistently address indoor air quality complaints in residential buildings, as well as to quide IAQ investigations in an efficient manner. D 7297, Practice for Evaluating Residential Indoor Air Quality Concerns, is under the

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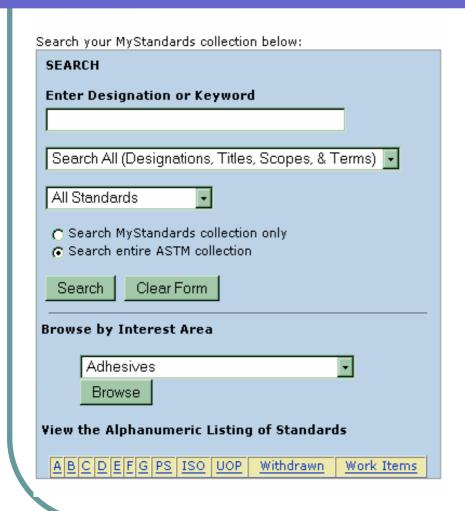
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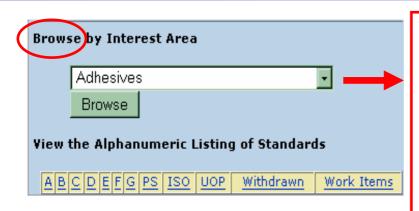
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• 瀏覽

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### 瀏覽標準:

- 1.運用主題領域下拉式選單。 可依所列的領域選擇,查看並 檢索相關標準文件。
- 2.依照標準編號字母順序。 英文字母順序檢索標準編號, 查看並檢索相關文件。

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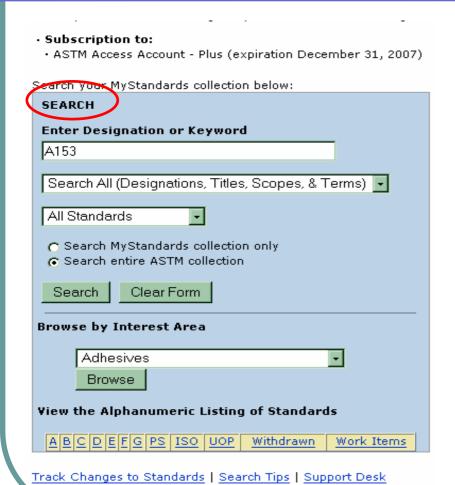
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	<u>View</u>	D6386-99(2005) Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting	
	<u>View</u>	F2329-05 Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners	
		F1916-98 Standard Specifications for Selecting Chain Link Barrier Systems With Coated Chain Link Fence Fabric and Round Posts for Detention Applications	
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<u>View</u>	A153/A153M-01 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware	
<u>View</u>	A153/A153M-04 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware	

1. 檢視標準摘要 2. 下載標準文件 3. 列出標準的演進與修訂版本

### Search Result - 檢視標準摘要



#### 2. Referenced Documents

<u>A780</u> Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings

A90/A90M Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles

A902 Terminology Relating to Metallic Coated Steel Products

B487 Test Method for Measurement of Metal and Oxide Coating
Thicknesses by Microscopical Examination of a Cross Section
B6 Specification for Zinc (Slab Zinc)

E376 Practice for Measuring Coating Thickness by Magnetic-Field or Eddy-Current (Electromagnetic) Test Methods

F1470 Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection

F1789 Terminology for F16 Mechanical Fasteners

A143 Practice for Safeguarding Against Embrittlement of Hot-Dip Galvanized Structural Steel Products and Procedure for Detecting Embrittlement

#### Index Terms

coatings, zinc; galvanized coatings; steel hardware, zinc coated; steel products, metallic coated; zinc coatings, steel products; 91.190; 91.190

透過摘要可察看:1.標準全名 2.範圍 3.相關標準 4.關鍵字

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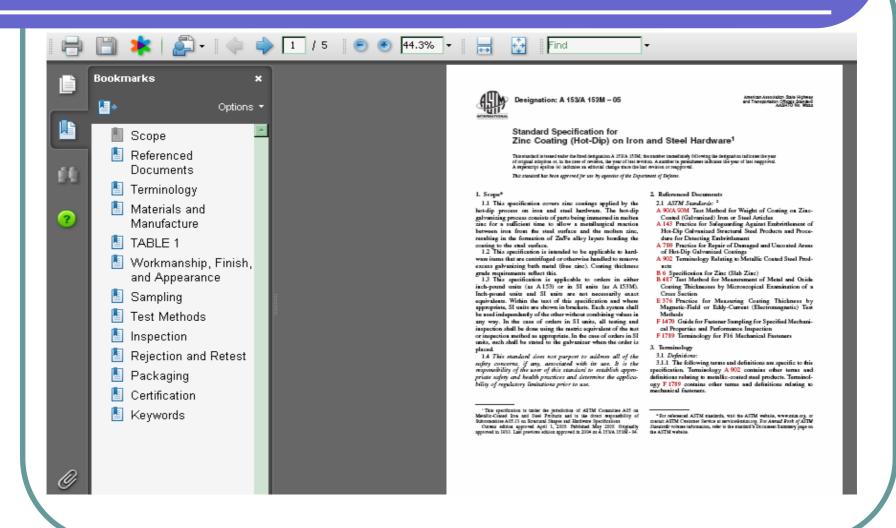
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shall be made in accordance with Practice A 780. The galvanizer shall make repairs unless directed by the purchaser to deliver items unrepaired for subsequent renovation by the purchaser. 501 to 1200 1201 to 3200 3201 to 10 000 10 001 and over

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## 使用標準注意事項

為避免誤用過期標準資料,且尊重著作權法,前述各類標準均需被授權後,才可合法列印;不宜逕行翻印及販售。

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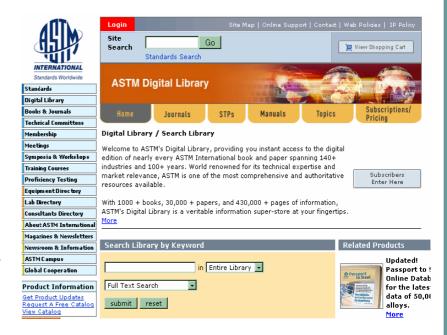
### ASTM 機構簡介

- 美國材料試驗協會 American Society
   For Testing and Materials (ASTM)。
- 成立於1898年,是世界上最早.最大的 非營利性標準制定組織。
- 任務是制訂材料、產品、系統和檢測服務的標準及促進有關知識的發展。
- ASTM Digital Library彙集各個領域的頂尖 研究人員發表的珍貴研究報告. 論文。

### ASTM 數位圖書館 資料類型

包含ASTM 美國材料試驗協會技術報告和期刊發表的…所有文章、論文以及相關圖書。

- 超過 950 種技術報告
- 超過 50 種手冊和專著
- 超過 13,000 篇期刊文章
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### 期刊 (Journal Articles)

提供全面的檢索許可權,範圍超過13,000 篇論文。包括:

- ASTM國際期刊(JAI)
- 測試和評估期刊(JTE)
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- 綜合、技術和研究期刊 (JCTR)
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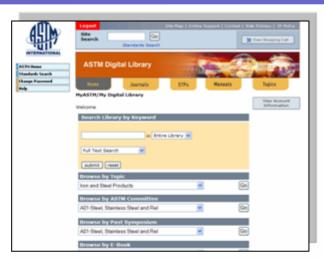
高品質與市場相關的論文 都經過專家評審和校訂, 保持資訊通暢,提供研究 和發現的權威觀點。

### 主題圖書館

- 鋼鐵產品
- 有色金屬產品
- 金屬測試方法與分析程式
- 建築材料與工程
- 石油產品、潤滑劑和化石 燃料
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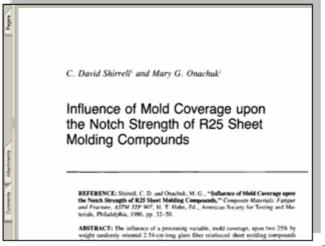
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### 檢索查詢技巧 II

### 檢索結果

檢索結果提供文件標題、作者、 出版日期、出處、卷本、摘要、 關鍵詞和委員會/分會。

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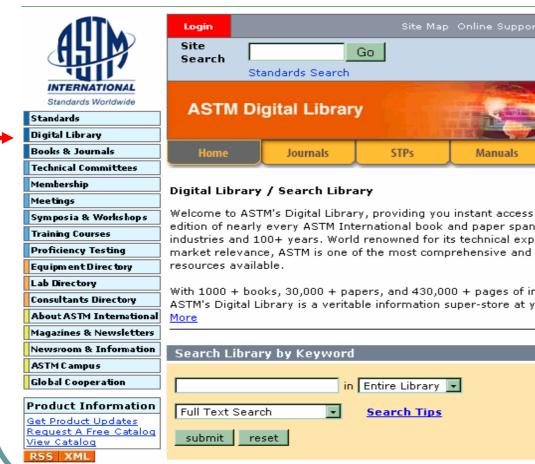
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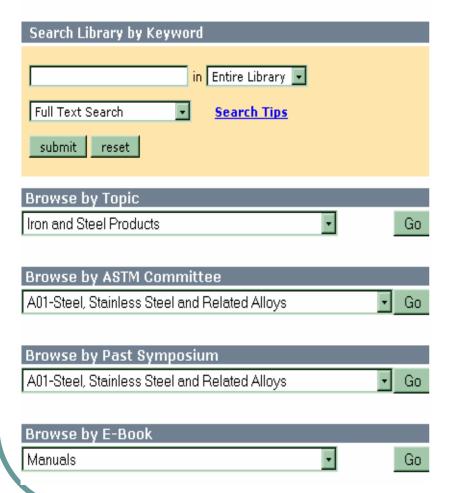
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Characterizing Fatigue Response of Nickel-Titanium Alloys by Rotary Beam Testing

Abstract

Patigue information has been reliable in predicting wire critical structural integrity. The aim of this study is to expound on the characterization technique of rotary beam fatigue testing (RBT). By alternating tension and compression stress states through RBT, it is possible to determine the life expectancy of Nitinol monofilament round wires. Fatigue testing has been employed to characterize the influence of subtle changes in inclusion content, chemistry variations of raw material, ingot transformation temperatures of Nitinol (NiTi), and surface finish conditions for implant grade wires. Currently, an ASTM standard does not exist that concentrates solely on fatigue testing shape memory alloys. By exploiting part geometry, this testing technique serves to compliment other characterization methods. Evaluation of fracture surfaces has proven useful in diagnosing the factors influencing failures. The utilization of fatigue data and fracture mechanics compliments tensile testing in providing information to the design engineer. Results from studying flexural endurance, statistical Weibull life assessment analysis, fracture analysis, and a determination of stress/strain levels at the site of failure have proven useful in determining desired material properties for next generation medical devices.



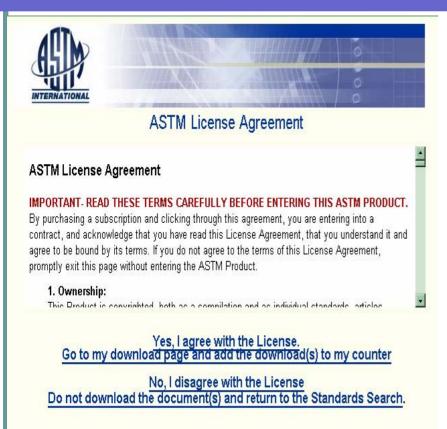
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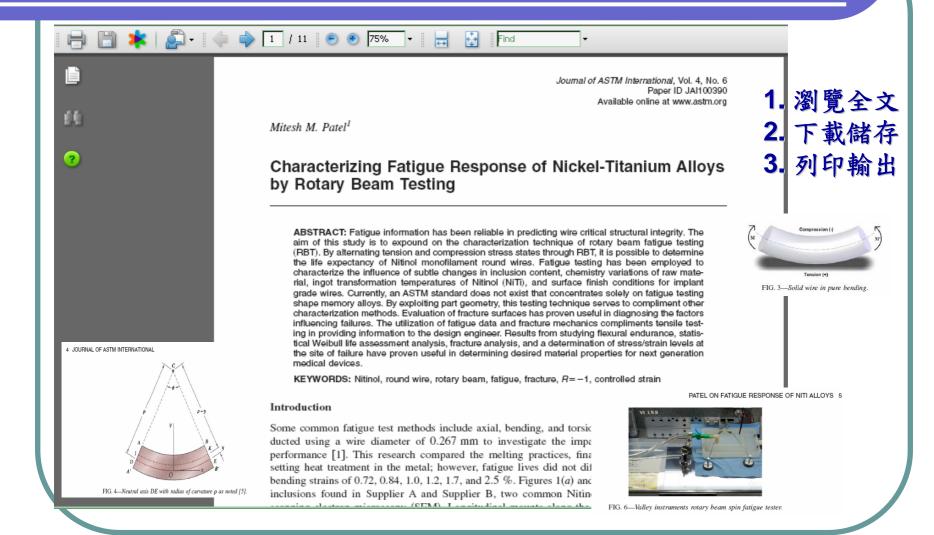


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