



Knovel[®]

Quick Reference Guide



Knovel 페이지 및 계정 생성

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- Knovel 시작페이지
- Knovel 시작페이지 구성

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- 모바일 App 계정 생성 및 이용

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기타 기능 및 문의 지원


- My Knovel
- Interactivity - Interactive Equations
- Interactivity - Interactive Tables
- Interactivity - Interactive Graphs
- 문의 및 지원

<p>Knovel을 사용하는 이유</p>	<p>주요 해당 제시 </p>	<p>빠른 검색 </p>	<p>용이한 접근 방식 </p>	
<p>Knovel 기능 및 장점</p>	<ul style="list-style-type: none"> • 150개 이상의 해외 콘텐츠 공급자로부터 받는 참조 서적, Interactive equations, 그래프 및 표 등을 포함한 콘텐츠 확인 • 쉬운 데이터 사용 및 수정, 입력 • 이용자 맞춤 설정 - 노트, 검색, 서적, 데이터, 알림 저장 및 공유 	<ul style="list-style-type: none"> • 스마트 서치 - 공학 용어 이해 가능 • 공학 개념을 기반으로 한 검색 결과에서 필요한 항목을 필터링으로 빠르게 확인 가능 • 필요한 검색 유형 선택 - 재료 속성 검색, 고급 검색 또는 KDA 이용 	<ul style="list-style-type: none"> • 모바일 앱(iOS 및 Android): 온오프라인으로 사용 가능 • Excel Add-in 기능과 소프트웨어 플러그인(Inventor, Revit)의 원활한 사용 • EBSCO, SUMMON & PRIMO 를 통한 검색 기능 향상 	
<p>Knovel 이용</p>	<p> Learn: 주제에 관한 엔지니어링 모범 사례 및 기초 지식을 빠르게 찾을 수 있음</p>		<p> Solve: 비즈니스 영향이 큰 엔지니어링 문제를 해결하는 데 필수인 인사이트와 데이터가 풍부한 해당 확인</p>	
<p>Knovel의 가치</p>	<p>학습 및 지식 관리 </p>	<p>제품 개발 및 개선 </p>	<p>EHSQ 리스크 관리 </p>	<p>우수한 운영 </p>

Knovel에서 제공하는 기술정보

1. Book 서적

- 키워드 검색 시 제목, 서지 및 목차에 해당 키워드가 매칭된 경우 해당 기술서적이 검색결과로 나타남
- 검색결과는 아래와 같이 왼쪽에 **BOOK** 으로 표시되며, 제목을 클릭하면 해당 서적의 목차, 관련서적 및 추가정보를 확인할 수 있으며, 본문 전체도 확인 가능
- 표시된 목차 중 원하는 Chapter을 클릭하면 해당 원문으로 접속 가능



Pipe Drafting and Design (3rd Edition) ☆ Save

BOOK By Parisher, Roy A.; Rhea, Robert A. (2012)

This Third Edition provides step-by-step instructions to walk pipe designers, drafters, and students through the creation of piping arrangement and isometric drawings. It ... [More >](#)

2. Chapter 챕터 (章)

- 키워드 검색 시 챕터(章) 및 본문에 해당 키워드가 매칭된 경우 서적본문이 검색결과로 나타남
- 검색결과는 아래와 같이 왼쪽에 **CHAPTER** 로 표시되며, 제목을 클릭하면 해당 키워드가 검색된 서적본문으로 곧바로 이동되어 해당 챕터(章)를 확인가능

9.4.3 Trapezoidal Metric Thread ☆ Save

CHAPTER From Machinery's Handbook (31st Edition) (2020) > 9. Threads and Threading > 9.4 Metric Screw Threads

[Trapezoidal Metric Thread](#)

Other Editions

3. Table 표

- 서적에서 발췌한 표 제공
- 검색결과는 아래와 같이 왼쪽에 **TABLE**로 표시되며, 제목을 클릭하면 해당 표(PDF, 엑셀 및 CSV)를 활용가능

Table 9b. Estimated Minimum Mechanical Properties of Wrought Aluminum alloys (Metric units)

TABLE From [Aluminum Alloy Database](#)

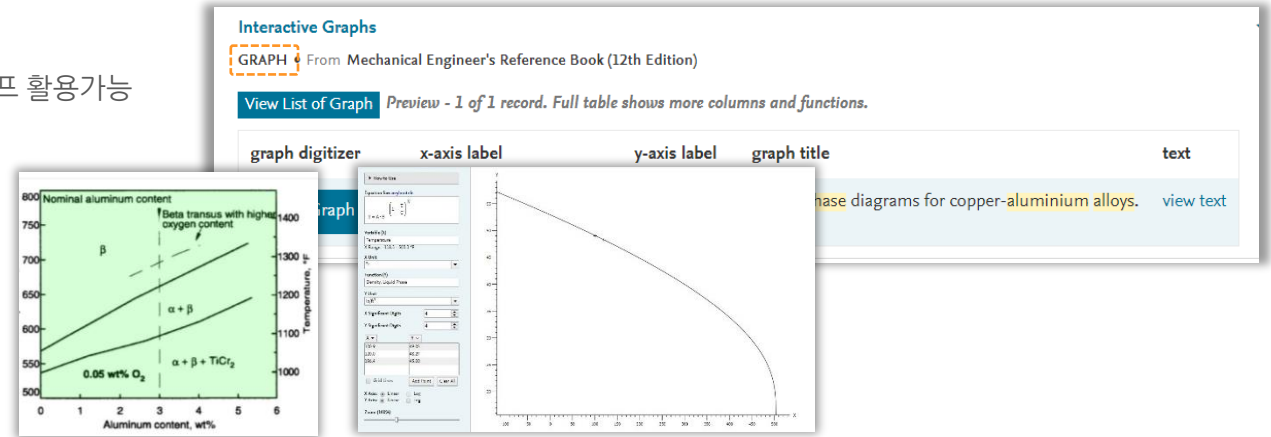
[View Full Table](#) Preview - 1 of 1187 records. Full table shows more columns and functions.

alloy type	alloy name	specification	form	condition or temper	temp	thickness (in)	width (in)	F _u ultimate tensile stress @ RT (ksi)	F _u tensile yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u compressive stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	table no.	physical properties
Aluminum Alloy Sheet Laminates	2024-T3	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	21 Layup	S	0.002 - 0.009		96(3) 46(1)	46(1) 33(1)	33(1) 33(1)		14"	96(3)	76(1)	86(1)	96(3)	76(1)	7.1.1.8(3)	Physical
Aluminum Alloy Sheet Laminates	2024-T3	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	32 Layup	S	0.003 - 0.004		96(3) 46(1)	46(1) 33(1)	33(1) 33(1)		13"	96(3)	76(1)	86(1)	96(3)	76(1)	7.1.1.8(3)	Physical
Aluminum Alloy Sheet Laminates	2024-T3	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	43 Layup	S	0.004 - 0.005		96(3) 46(1)	46(1) 33(1)	33(1) 33(1)		14"	96(3)	76(1)	86(1)	96(3)	76(1)	7.1.1.8(3)	Physical
Aluminum Alloy Sheet Laminates	2024-T3	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	54 Layup	S	0.004 - 0.006		96(3) 46(1)	46(1) 33(1)	33(1) 33(1)		14"	96(3)	76(1)	86(1)	96(3)	76(1)	7.1.1.8(3)	Physical

alloy type	alloy name	specification	form	condition or temper	temp	thickness (in)	width (in)	F _u ultimate tensile stress @ RT (ksi)	F _u tensile yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u compressive stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	F _u ultimate stress @ RT (ksi)	F _u yield stress @ RT (ksi)	table no.	physical properties
Aluminum Alloy Sheet Laminates	7475-T761	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	21 Layup	S	0.002 - 0.009		100(1) 50(1)	75(1) 46(1)	46(1) 33(1)	33(1) 33(1)	10"	100(1)	80(1)	90(1)	100(1)	80(1)	7.1.2.8(3)	Physical
Aluminum Alloy Sheet Laminates	7475-T761	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	32 Layup	S	0.003 - 0.004		100(1) 50(1)	75(1) 46(1)	46(1) 33(1)	33(1) 33(1)	10"	100(1)	80(1)	90(1)	100(1)	80(1)	7.1.2.8(3)	Physical
Aluminum Alloy Sheet Laminates	7475-T761	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	43 Layup	S	0.004 - 0.005		100(1) 50(1)	75(1) 46(1)	46(1) 33(1)	33(1) 33(1)	10"	100(1)	80(1)	90(1)	100(1)	80(1)	7.1.2.8(3)	Physical
Aluminum Alloy Sheet Laminates	7475-T761	Aramid Fiber Reinforced Sheet	Aramid Fiber Reinforced Sheet	54 Layup	S	0.004 - 0.006		100(1) 50(1)	75(1) 46(1)	46(1) 33(1)	33(1) 33(1)	10"	100(1)	80(1)	90(1)	100(1)	80(1)	7.1.2.8(3)	Physical

4. Graph 그래프

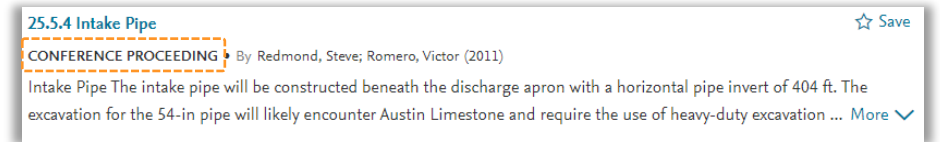
- 서적에서 발췌한 그래프 및 데이터베이스에서 추출한 추세선을 제공
- 검색결과는 GRAPH로 표시되며, 제목 및 해당 아이콘을 클릭하면 그래프 활용가능



The screenshot displays the 'Interactive Graphs' section of the Knovel platform. It shows a search result for a graph from the 'Mechanical Engineer's Reference Book (12th Edition)'. The interface includes a 'graph digitizer' tool with fields for 'x-axis label', 'y-axis label', and 'graph title'. A preview of the graph is shown, along with a 'view text' button. Below the search results, there is a detailed view of a phase diagram for copper-aluminum alloys, showing temperature vs. aluminum content with various phase regions like β , $\alpha + \beta$, and $\alpha + \beta + TiCr_2$.

5. Conference Proceeding 학회발표모음집

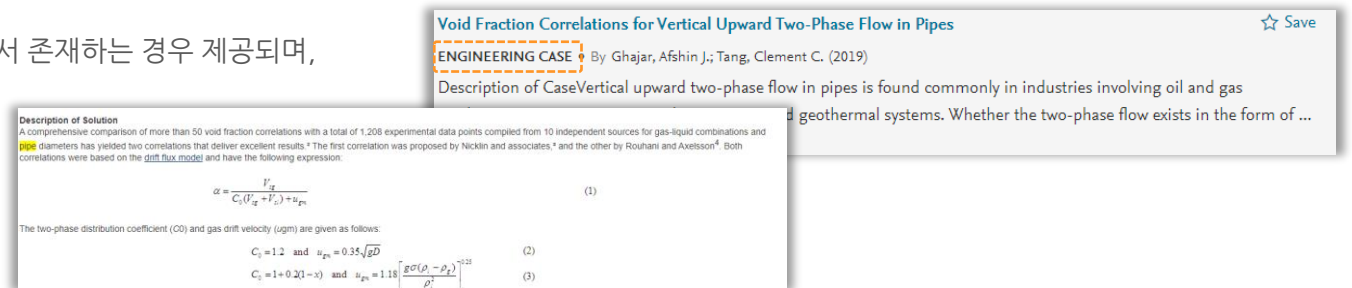
- 학회에서 서적으로 출간한 학회발표모음집을 제공하며, 해당 Conference Proceeding이 검색결과로 나타남
- 검색결과는 CONFERENCE PROCEEDING 으로 표시되며, 제목을 클릭하면 해당 자료로 이동하여 내용 확인



The screenshot shows a search result for a conference proceeding titled '25.5.4 Intake Pipe'. The author is listed as 'By Redmond, Steve; Romero, Victor (2011)'. The description states: 'Intake Pipe The intake pipe will be constructed beneath the discharge apron with a horizontal pipe invert of 404 ft. The excavation for the 54-in pipe will likely encounter Austin Limestone and require the use of heavy-duty excavation ... More'. There is a 'Save' icon and a 'view text' link.

6. Engineering Case 기술실무사례

- 검색 키워드와 관련된 기술실무사례가 Knovel 클라우드 서버에서 존재하는 경우 제공되며, ENGINEERING CASE로 표시됨



The screenshot shows a search result for an engineering case titled 'Void Fraction Correlations for Vertical Upward Two-Phase Flow in Pipes'. The author is 'By Ghajar, Afshin J.; Tang, Clement C. (2019)'. The description states: 'Description of Case Vertical upward two-phase flow in pipes is found commonly in industries involving oil and gas and geothermal systems. Whether the two-phase flow exists in the form of ...'. There is a 'Save' icon. Below the description, there is a 'Description of Solution' section with mathematical equations and a graph showing the two-phase distribution coefficient (C0) and gas drift velocity (u_{gm}) as a function of the void fraction (α).

Description of Solution
A comprehensive comparison of more than 50 void fraction correlations with a total of 1,208 experimental data points compiled from 10 independent sources for gas-liquid combinations and pipe diameters has yielded two correlations that deliver excellent results. The first correlation was proposed by Nicklin and associates, and the other by Rouhani and Axelsson. Both correlations were based on the drift flux model and have the following expression:

$$\alpha = \frac{V_{g0}}{C_0(V_{g0} + V_{gm}) + u_{gm}} \quad (1)$$

The two-phase distribution coefficient (C0) and gas drift velocity (u_{gm}) are given as follows:

$$C_0 = 1.2 \text{ and } u_{gm} = 0.35\sqrt{gD} \quad (2)$$

$$C_0 = 1 + 0.2(1 - \alpha) \text{ and } u_{gm} = 1.18 \left[\frac{gD(\rho_l - \rho_g)}{\rho_l^2} \right]^{0.25} \quad (3)$$

7. Dictionary 기술사전

- 검색 키워드가 기술사전에 있는 경우 DICTIONARY로 표시되며 해당 정보제공

8. Encyclopedia 백과사전

- 위의 기술사전과 마찬가지로 검색 키워드가 백과사전에 있는 경우 ENCYCLOPEDIA 로 표시, 해당 정보제공

heat loss ☆ Save

DICTIONARY From Dictionary of Energy (Expanded Edition) (2009) > Haber-Bosch process to Hz

heat loss HVAC. a decrease in the amount of heat contained in an interior space, resulting from heat flow through walls, windows, and other building surfaces, and from the exfiltration of warm air.

5.14.102 Soil Pipes and Pipe Flow ☆ Save

ENCYCLOPEDIA From Water Encyclopedia, Volumes 1-5 (2005) > 5.14 Ground Water

SOIL PIPES AND PIPE FLOW 401 Soil Restoration Series, 17, Springer-Verlag, New York, pp. 261–310. 15. Zayed, A.M., Lytle, C.M., and Terry, N. (1998). Accumulation and volatilization of different species of selenium by plants. Planta 206: ... [More](#) ▾

9. Regulatory 규정집

- 공공기관에서 출간한 규정집을 제공하며, 검색결과는 REGULATORY로 표시되어 해당 정보제공

Parts 700-789, Environmental Protection Agency (Continued) (Pages 24319-24755) ☆ Save

REGULATORY (2015)

at <http://www.epa.gov/pcb>, or from VerDate Sep2014 15:30 Aug 05, 2015 Jkt 235181 PO 00000 Frm 01059 Fmt 8010 Sfmt 8010 Q:\40\40V31.TXT 31|po we ll o n ... [More](#) ▾

10. Equation 기술공식

- 실무에서 자주사용하는 기술공식을 수치입력만으로 계산이 가능한 워크시트를 제공
- 검색결과는 EQUATION으로 표시되며, 제목을 클릭하면 해당 기술공식에 관한 설명과 워크시트 제공

Reynolds Factor for Bingham Plastic Fluids—Pipe Flow ☆ Save

EQUATION By Knovel (2014)

For Bingham plastics, an expr of inertial to viscous momentum flux.

[Preview](#) ▾ [Open Worksheet](#)

$$Re_{B1} = \frac{d \cdot u \cdot \rho}{\mu \left(1 + \frac{d \cdot \tau}{6000000 \cdot u \cdot \mu} \right)}$$

$$Re_{B11} = \frac{Re}{1 + \frac{Re}{6 \cdot Re}}$$

Re_{B1} and Re_{B11} is Reynolds number for Bingham plastics, unitless
 He is Hedstrom number, unitless
 d is hydraulic diameter of the pipe, m
 ρ is density of the fluid, kg/m³
 u is average velocity of fluid flow, m/s
 μ is viscosity of the fluid, Pa·s or kg/m·s
 τ is yield strength of fluid, Pa

Example Equations 1 +

Knovel에서 제공하는 기술정보

Excel 엑셀 스프레드시트

- 화학공학, 건설, 동역학 등의 실험값 및 예제 등을 엑셀 스프레드 시트로 제공
- Knovel이 엘스비어에 통합되기 전 제공했던 데이터베이스 자료로서 2007년 이후 현재까지 업데이트 없음

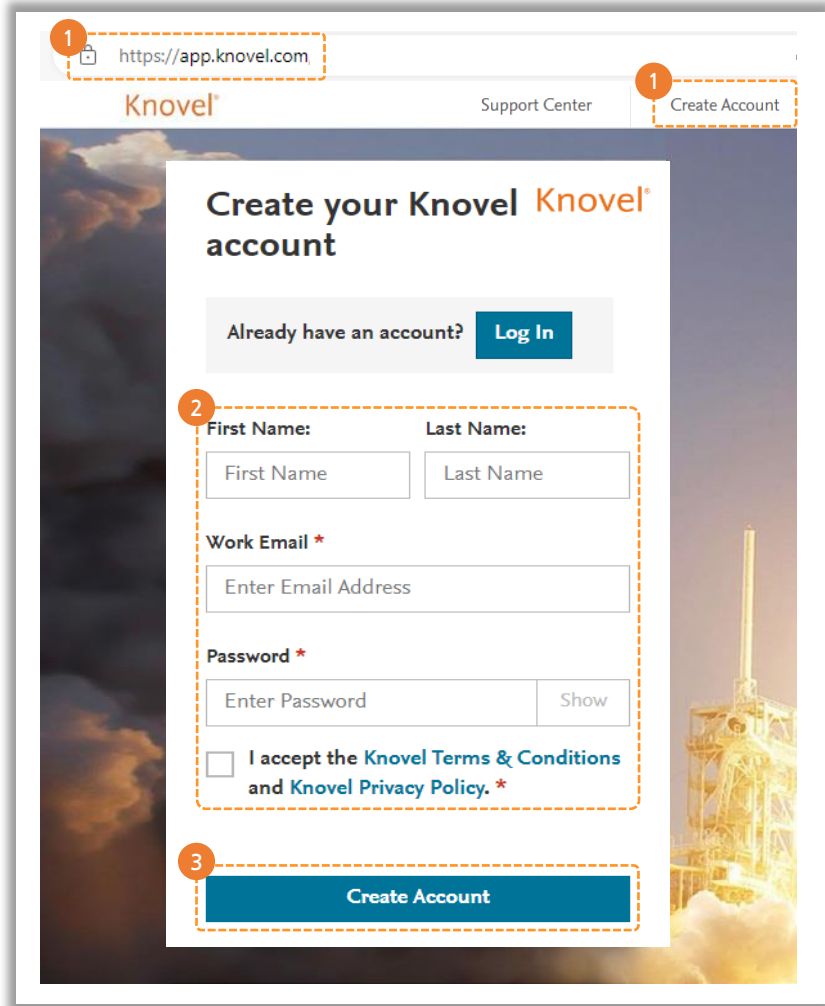
Mathcad 기술워크시트 자료

- 화학공학, 건설, 동역학 등의 실험값 및 예제 등을 엑셀 스프레드 시트로 제공
- Knovel이 엘스비어에 통합되기 전 제공했던 데이터베이스 자료로서 2007년 이후 현재까지 업데이트 없음

Knovel 페이지 및 계정 생성

- [계정 생성](#)
- [Knovel 시작페이지](#)
- [Knovel 시작페이지 구성](#)

계정 생성



The screenshot shows the Knovel account creation page. It features a header with the Knovel logo, a 'Support Center' link, and a 'Create Account' button. The main content area is titled 'Create your Knovel account' and includes a 'Log In' button for existing users. The registration form consists of several fields: 'First Name' and 'Last Name' (each with a placeholder), 'Work Email' (with a placeholder and an asterisk), and 'Password' (with a placeholder and a 'Show' button). Below the password field is a checkbox for accepting the 'Knovel Terms & Conditions and Knovel Privacy Policy'. A 'Create Account' button is located at the bottom of the form. Three numbered callouts (1, 2, 3) are overlaid on the page: callout 1 points to the browser address bar and the 'Create Account' button in the header; callout 2 points to the registration form fields; callout 3 points to the 'Create Account' button at the bottom of the form.

- ① App.Knovel.com 페이지 접속 후 오른쪽 상단의 Create Account 클릭
- ② 이름, 이메일, 비밀번호 입력 후 Knovel Privacy Policy 동의란 체크
- ③ Create Account 클릭 후 계정 생성

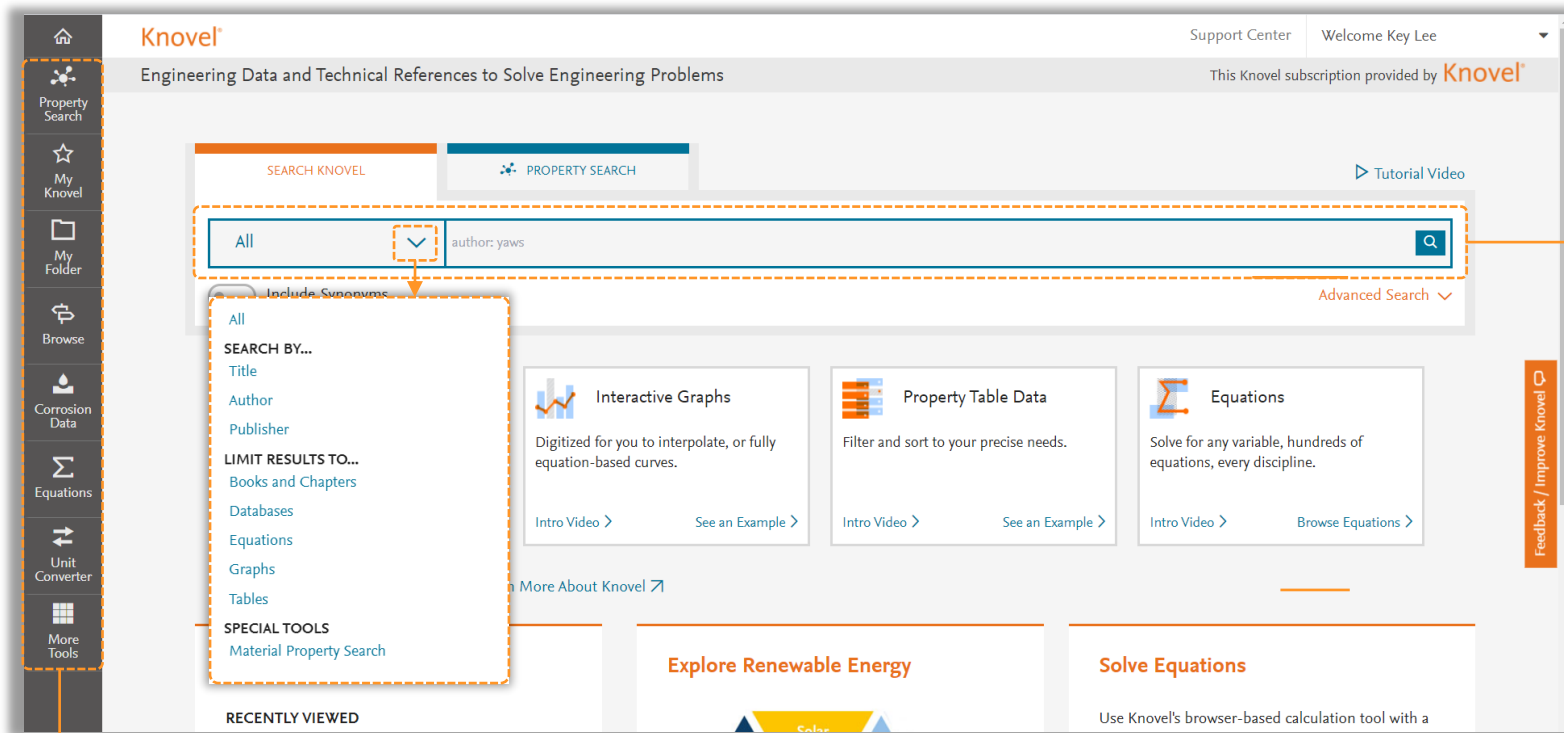
Knovel 가입 시,

- 오프라인에서도 콘텐츠를 인쇄 및 다운로드 가능
- 다른 사용자와 콘텐츠 공유
- 콘텐츠 노트 작성 및 하이라이트 기능 사용 가능

Knovel 시작페이지



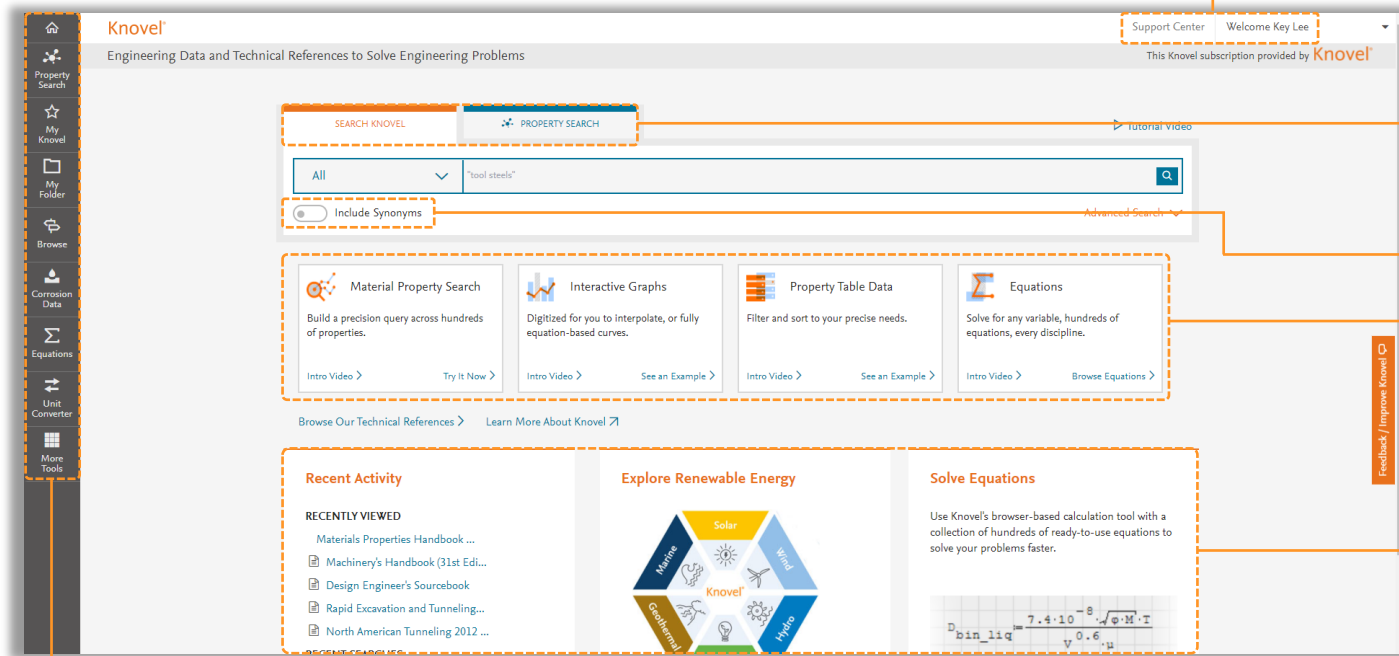
<http://app.knovel.com> 접속 시 아래 페이지 확인



- Knovel 검색창: 키워드 입력 후 돋보기 아이콘 클릭 또는 엔터 키를 이용하여 검색
- 검색창 왼쪽을 클릭하여 검색정보를 선택 또는 제한
 - All (전체검색)
 - Title (서적제목), Author (저자), Publisher (출판사)
 - Books and Chapters (서적 및 장(章)), Databases (기술데이터), Equation (공식), Graphs (그래프), Tables (표)
 - Material Property Search (물성정보 검색)

- Persistent Toolbar: Knovel 페이지 어디에서든 주요기능을 사용할 수 있는 툴바

Knovel 시작페이지 구성



- Support Center: 고객센터
- Welcome: 사용자정보 업데이트, 암호변경 및 로그아웃
- Search: 키워드, 서적제목 및 저자명으로 자료 검색
- Property Search: 재료물성정보 제공 (표, 그래프)
- Include Synonyms: 검색결과에 동의어 포함여부 결정
- Intro Video & Example: 소개 동영상 및 예시 설명 제공
- Information Panels: 최근 검색기록, 추가 콘텐츠, 공지사항

- Home: 홈페이지 시작화면
- Property Search: 재료물성정보 제공 (표, 그래프)
- My Knovel: 자주 사용하는 콘텐츠 관리
- My Folder: 자주 사용하는 콘텐츠 폴더 이동
- Browse: Knovel 서적 콘텐츠를 주제분야별로 확인
- Knovel Corrosion: 부식정보 (미제공)
- Equations: 기술공식 활용 가능
- Unit Converter: 공학단위변환기
- More Tools: 모바일용 Knovel ToGo 등 다운 가능

Knovel ToGO

- [Knovel ToGo 모바일 App](#)
- [Knovel 페이지 - 모바일 App 이용](#)
- [모바일 App 계정 생성 및 이용](#)

Knovel ToGo 모바일 App

Knovel ToGo: 모바일용 e-book 플랫폼

- 연구자가 외부에서 Knovel 서적을 읽을 수 있는 어플
- 모바일 기기당 한 달에 20권 다운로드 가능 (동시 보관은 3권 제한)
- 30일의 보관기간
- Adroid, Apple 앱스토어에서 앱을 무료로 다운로드 후 휴대폰 및 태블릿에서 사용 가능



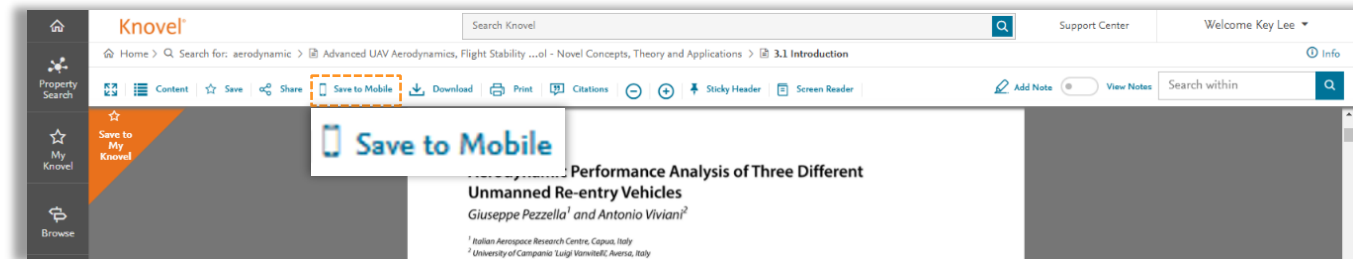
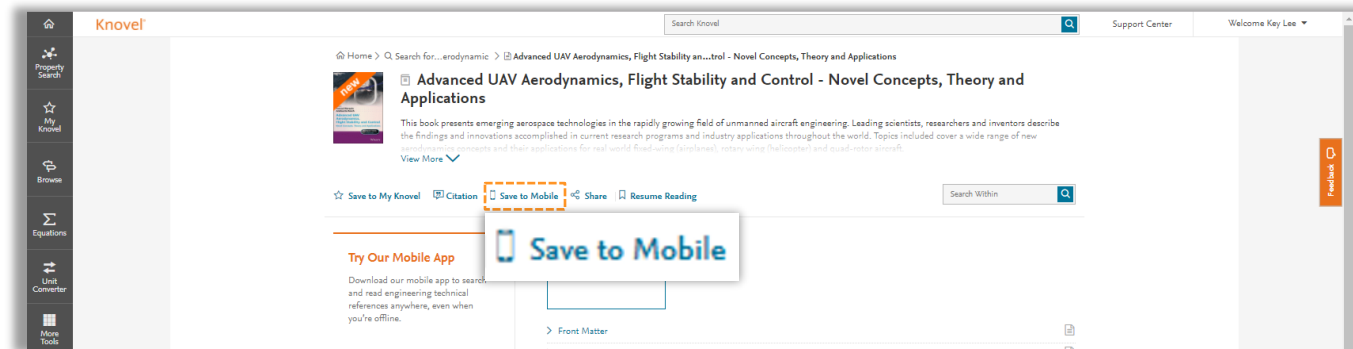
Knovel 페이지 - 모바일 App 이용



Knovel 홈페이지 - Knovel ToGO 모바일 어플 사용 방법

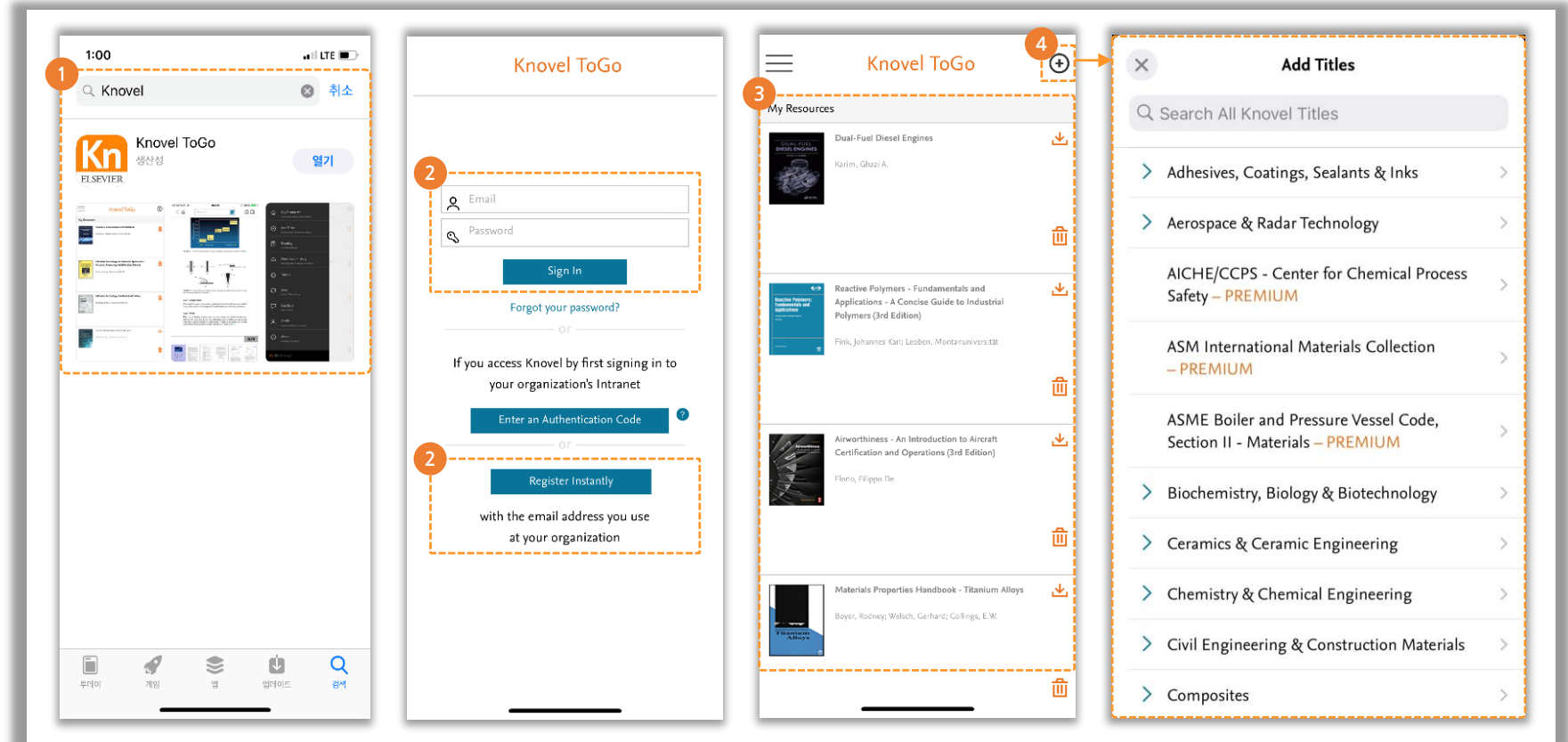
- 검색 결과 중 선택 후 Save to Mobile 클릭 시, 모바일 환경에서도 Knovel 내 서적 활용 가능

*Knovel ToGo는 계정 등록이 완료된 사용자만 접속 가능



모바일 App 계정 생성 및 이용

- ① IOS 또는 안드로이드 기기에서 Knovel ToGo 어플 다운로드
- ② Email / Password 입력 후 Sign in 클릭 (기존 유저) / 회원가입 시 Register Instantly 클릭 후 정보 기입
- ③ 로그인 후 Knovel 페이지에서 저장해둔 서적 확인 및 다운로드 가능
- ④ 오른쪽 상단 + 표시 클릭 - Add titles 페이지에서 타이틀 추가



Knovel 검색 및 결과

- [Knovel 검색하기](#)
- [관련 용어 자동 추천](#)
- [검색 결과 확인 및 필터 적용](#)
- [Knovel Resource - Book](#)
- [Knovel Resource - Chapter](#)
- [검색 결과 - Test/Content viewer](#)
- [Advanced Search](#)
- [Material Property Search](#)

검색하기



Knovel 3가지 검색 방법

- Search Knovel: 넓은 범위로 검색 후 원하는 정보 필터링
- Advanced Search: 키워드, 서적 제목, 저자명 등으로 검색
- Material Property Search: 재료물성 검색으로 크고 복잡한 표에서 정보 확인

Knovel®

Support Center

Welcome Sreenath Juttu

SEARCH KNOVEL

PROPERTY SEARCH

acrylic polymer*

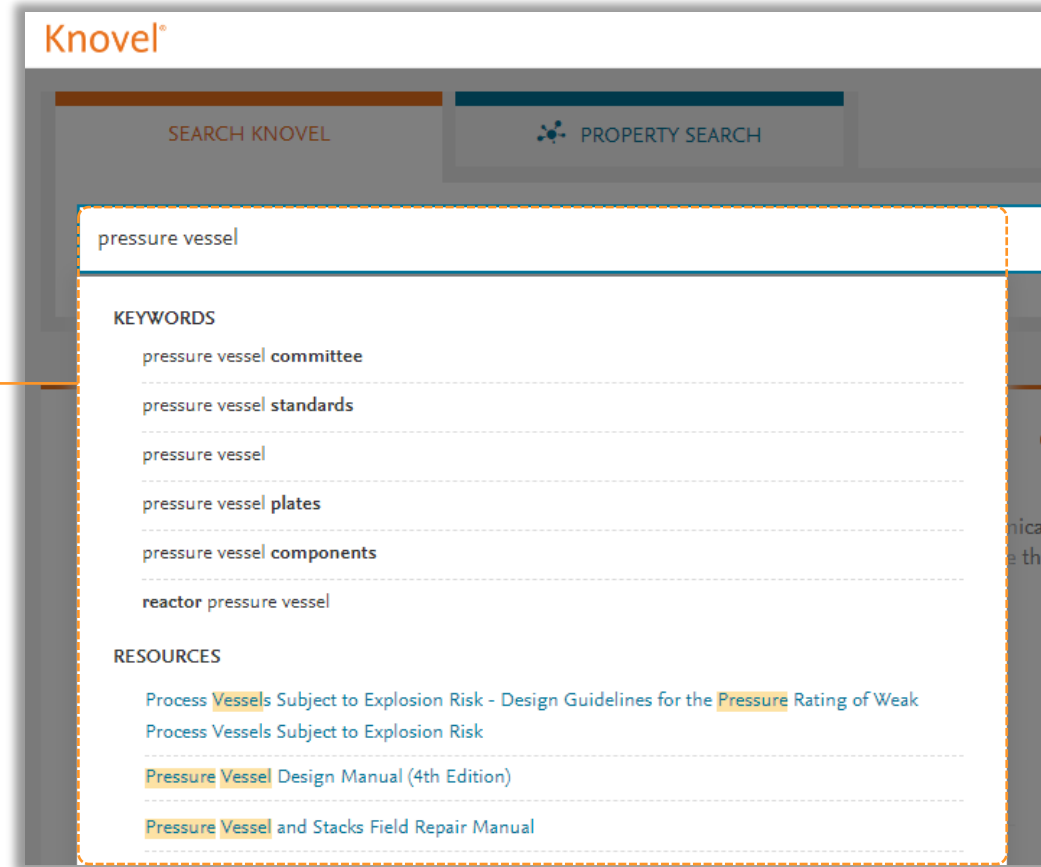
Advanced Search

Video

관련 용어 자동 추천

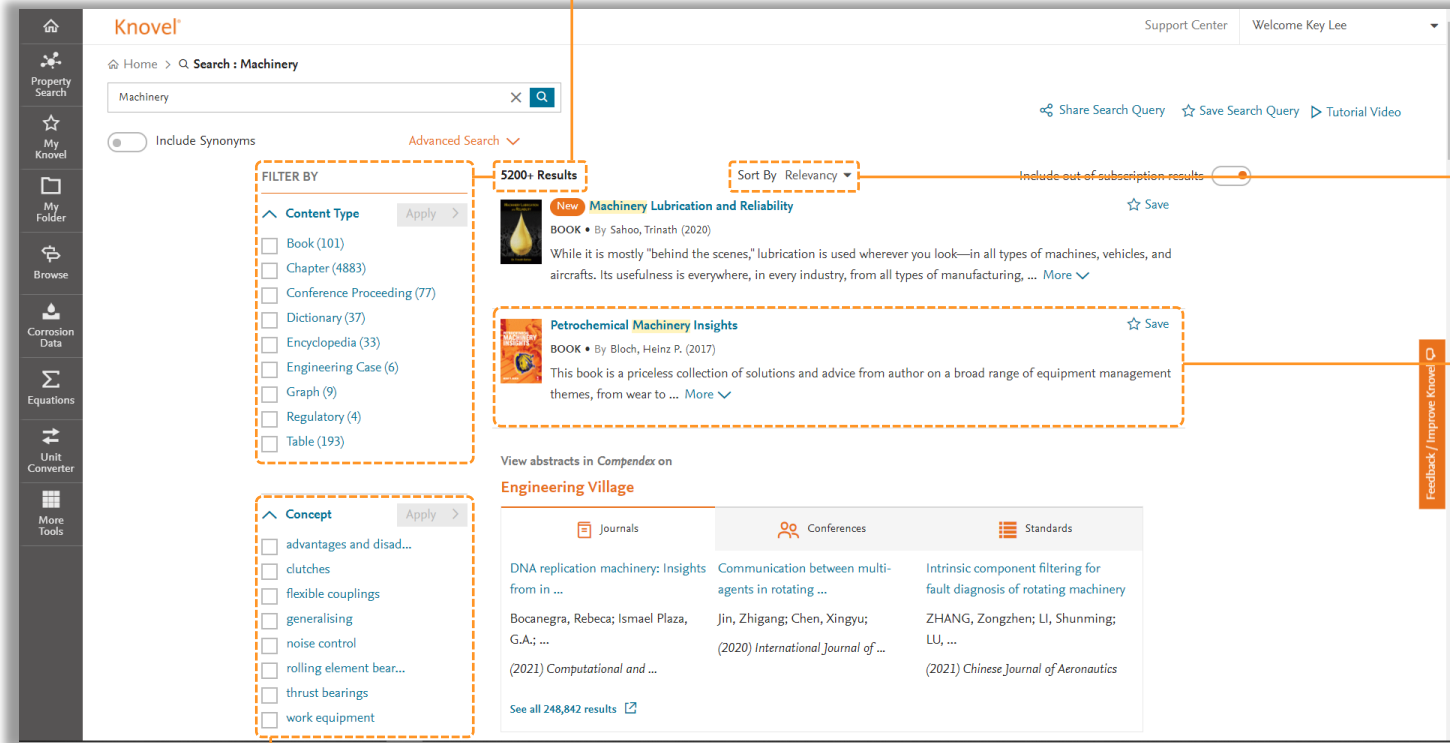
Search Knovel의 자동 추천 기능

- 쿼리 입력 시, 관련 용어를 자동으로 추천하는 기능



The screenshot displays the Knovel search interface. At the top, there are two search options: 'SEARCH KNOVEL' and 'PROPERTY SEARCH'. The search bar contains the text 'pressure vessel'. Below the search bar, the interface is divided into two sections: 'KEYWORDS' and 'RESOURCES'. The 'KEYWORDS' section lists several related terms: 'pressure vessel committee', 'pressure vessel standards', 'pressure vessel', 'pressure vessel plates', 'pressure vessel components', and 'reactor pressure vessel'. The 'RESOURCES' section lists three documents: 'Process Vessels Subject to Explosion Risk - Design Guidelines for the Pressure Rating of Weak Process Vessels Subject to Explosion Risk', 'Pressure Vessel Design Manual (4th Edition)', and 'Pressure Vessel and Stacks Field Repair Manual'. A dashed orange box highlights the search results area, and an orange line points from the text '관련 용어 자동 추천' to this area.

검색 결과 확인 및 필터 적용



The screenshot shows the Knovel search results page for the keyword 'Machinery'. The interface includes a search bar, navigation sidebar, and a main results area. Several elements are highlighted with orange dashed boxes and lines:

- Search Bar:** Contains the search term 'Machinery' and a search button.
- Filter Panel (Left):**
 - Content Type:** A list of document types with counts: Book (101), Chapter (4883), Conference Proceeding (77), Dictionary (37), Encyclopedia (33), Engineering Case (6), Graph (9), Regulatory (4), and Table (193).
 - Concept:** A list of related concepts: advantages and disad..., clutches, flexible couplings, generalising, noise control, rolling element bear..., thrust bearings, and work equipment.
- Results Section:**
 - 5200+ Results:** Total number of search results.
 - Sort By Relevancy:** A dropdown menu indicating the sorting criteria.
 - Include out-of-subscription results:** A toggle switch.
 - Search Results:** Two results are shown:
 - Machinery Lubrication and Reliability:** A book by Sahoo, Trinath (2020). Abstract: "While it is mostly 'behind the scenes,' lubrication is used wherever you look—in all types of machines, vehicles, and aircrafts. Its usefulness is everywhere, in every industry, from all types of manufacturing, ..."
 - Petrochemical Machinery Insights:** A book by Bloch, Heinz P. (2017). Abstract: "This book is a priceless collection of solutions and advice from author on a broad range of equipment management themes, from wear to ..."
- Engineering Village Section:** A table of related search results under the heading 'View abstracts in Compendex on Engineering Village'.

Journals	Conferences	Standards
DNA replication machinery: Insights from in ...	Communication between multi-agents in rotating ...	Intrinsic component filtering for fault diagnosis of rotating machinery
Bocanegra, Rebeca; Ismael Plaza, G.A.; ...	Jin, Zhigang; Chen, Xingyu; (2020) <i>International Journal of ...</i>	ZHANG, Zongzhen; Li, Shunming; LU, ... (2021) <i>Chinese Journal of Aeronautics</i>

- 총 검색결과 5,200건
 - Book(서적) 101권
 - Machinery가 언급된 Chapter(본문) 4.883건
 - Graphs(그래프) 9건
 - Tables(표) 193건
 - Conference Proceeding(학회발표자료) 77건 등

- Relevancy (관련도) 기준으로 검색결과 나열, 관련도 외에도 최신 발행일 순으로 정렬 가능

- 검색결과 클릭 후 Full-text(원문) 열람 가능

- Concept: 검색한 keyword를 보다 세분화한 관련 검색어로 추가 검색 수행 가능

검색 결과 확인 및 필터 적용



• 검색어 창: 검색한 키워드 표시

• Share Search Query: 검색 결과 이메일 공유

• Save Search Query: 해당 검색어 저장

• Tutorial Video: 튜토리얼 영상

• Results: 총 검색결과 수

• Sort by: 관련도 또는 최신 출판일 순으로 결과 정렬

• Include out of subscription results: 미구독 주제분야 검색결과 포함여부 결정

• 검색결과

• Compendex on Engineering Village: Knove에서 제공하지 않는 논문정보를 보완하기 위해 서지정보 제공 링크

• Concept: Knovel 콘텐츠 중 관련 기술용어 추가검색

• Date: 최신 출간일 기준으로 필터링

- Contents Type: 콘텐츠 유형별로 결과 필터링
- Book, Chapter Conference Proceeding, Graph, Table, Equations, Dictionary, Engineering Case 등

Knovel Resource - Book



앞의 검색결과 중 서적제목 클릭 시, 아래의 화면 확인 가능

Additional Information

Author(s) / Editor(s)	Oberg, Erik; Jones, Franklin D.; Horton, Holbrook L.; Ryffel, Henry H.; McCauley, Christopher J.; Brengelman, Laura
Publisher	Industrial Press
Copyright / Publication Date	2020
ISBN	978-0-8311-3731-1
Electronic ISBN	978-1-5231-3482-3
Knovel Release Date	2020-11-30
Knovel Subject Area(s)	Manufacturing Engineering Mechanics & Mechanical Engineering

Table of Contents

- > Title Page
- Editorial Advisory Board
- Preface
- Table of Contents
- > 1. Mathematics
- > 2. Mechanics and Strength of Materials
- > 3. Properties, Treatment, and Testing of Materials
- > 4. Dimensioning, Gaging, and Measuring
- > 5. Tooling and Toolmaking
- > 6. Machining Operations
- > 7. Manufacturing Processes
- > 8. Fasteners

• 서적 제목 및 설명

• 목차

• 관련 서적

• 추가서적정보

Knovel Resource - Book



- 서적 표시, 제목, 간단설명

Additional Information

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Electronic ISBN	978-1-5231-3482-3
Knovel Release Date	2020-11-30
Knovel Subject Area(s)	Manufacturing Engineering Mechanics & Mechanical Engineering

- Search Within: 목차 내 검색

- Save to My Knovel: 개인 계정에 저장
- Citation: 서지관리 프로그램으로 전송
- Save to Mobile: 모바일 기기 저장 (Knovel ToGo)
- Share: 검색 결과 이메일 공유
- Relat

- Table of Contents: 목차, 목차 내 Chapter(장)을 클릭하면 원문으로 이동

- Related Books: 검색된 서적과 관련된 서적 추천

- Additional Information: 저자명, 출판사명, 출간일, ISBN 정보 등을 제공

Knovel Resource - Book



Knovel Search: Machinery handbook, book > Machinery...st Edition

Machinery's Handbook (31st Edition)
Other Editions

Since the first edition published more than 100 years ago, this handbook has been the most popular engineering resource of all time. Universally considered the principal reference in the manufacturing and mechanical industries, the Handbook is the ultimate collection of essential information needed by engineers, designers, drafters, metalworkers, toolmakers, machinists, educators, students, and serious home View More

★ Saved Citation ★ Saved to Mobile Share Resume Reading

New in Manufacturing Engineering

- Exceeding the Goal - Adventures in ... Ricketts, John Arthur
- Proceedings of the Fourth International ... Hou, Suong Yan
- CNC Handbook Kief, Hans G.

85 Material Properties Tables
1 My Notes

Table of Contents

- Title Page
- Editorial Advisory Board
- Preface
- Table of Contents
- 1. Mathematics
- 2. **3. Properties, Treatment, and Testing of Materials**
- 4. Dime
- 5. Tooling and Toolmaking
- 6. Machining Operations
- 7. Manufacturing Processes
- 8. Fasteners

- ① 목차에서 언하는 Chapter(장) 클릭 시, 서적원문으로 이동
- ② 서적원문 열람 가능

*해당 서적원문은 Knovel 서버에서 제공하며 이용자가 직접 컴퓨터에서 활용 가능하므로, Knovel과 계약된 기술서적 및 핸드북은 개정판 발생 시 신규 기술정보에 보다 빠르게 접근 가능

Knovel Search: Machinery handbook, book > Machinery's Handbook (31st Edition) > 3. Properties, Treatment, and Testing of Materials

Machinery's Handbook, 31st Edition
372 THERMAL PROPERTIES OF MATERIALS

Table 8. Typical Values of Coefficient of Linear Thermal Expansion for Thermoplastics and Other Commonly Used Materials

Material ^a	m/in/deg F × 10 ⁻⁵	cm/cm/deg C × 10 ⁻⁵	Material ^a	m/in/deg F × 10 ⁻⁵	cm/cm/deg C × 10 ⁻⁵
Liquid Crystal—GR	0.3	0.6	ABS—GR	1.7	3.1
Glass	0.4	0.7	Polypropylene—GR	1.8	3.2
Steel	0.6	1.1	Epoxy—GR	2.0	3.6
Concrete	0.8	1.4	Polyphenylene sulfide—GR	2.0	3.6
Copper	0.9	1.6	Acetal—GR	2.2	4.0
Brass	1.0	1.8	Epoxy	3.0	5.4
Brass	1.0	1.8	Polycarbonate	3.6	6.5
Aluminum	1.2	2.2	Acrylic	3.8	6.8
Polycarbonate—GR	1.2	2.2	ABS	4.0	7.2
Nylon—GR	1.3	2.3	Nylon	4.5	8.1
TP polyester—GR	1.4	2.5	Acetal	4.8	8.5
Magnesium	1.4	2.5	Polypropylene	4.8	8.6
Zinc	1.7	3.1	TP Polyester	6.9	12.4
ABS—GR	1.7	3.1	Polyethylene	7.2	13.0

^aGR = Typical glass fiber-reinforced material. Other plastics materials shown are unfilled.

Table 9. Linear Expansion of Various Substances between 32 and 212°F Expansion of Volume = 3 × Linear Expansion

Substance	Linear Expansion		Substance	Linear Expansion	
	for 1°F	for 1°C		for 1°F	for 1°C
Brick	0.000030	0.000054	Masonry, brick from	0.000026	0.000047
Cement, Portland	0.000060	0.000108	to	0.000050	0.000090
Concrete	0.000080	0.000144	Plaster	0.000092	0.000166
Flintite	0.000028	0.000070	Porcelain	0.000020	0.000036
Glass, thermometer	0.000050	0.000090	Quartz, from	0.000043	0.000077
Glass, hard	0.000040	0.000072	to	0.000079	0.000142
Granite	0.000044	0.000079	Slate	0.000058	0.000104
Marble, from	0.000031	0.000056	Sandstone	0.000065	0.000117

Knovel Resource - Book



- 사용자 이동경로: 검색 도구로 사용

The screenshot shows the Knovel website interface with several key features highlighted by orange dashed boxes and arrows:

- Search Bar:** Located at the top, containing the text "Search Knovel" and a search icon.
- Add Note:** A button with a notepad icon and a toggle switch, used for adding notes or highlighting text.
- View Notes:** A button to view the notes added to the document.
- Search within:** A search bar within the document viewer to search for specific terms.
- Document Viewer:** The main area displaying the document content, including tables and text.
- Navigation Buttons:** A row of icons for "Content", "Save", "Share", "Save to Mobile", "Download", "Print", "Citations", "Hide Header", and "Screen Reader".
- Table 8:** "Typical Values of Coefficient of Linear Thermal Expansion for Thermoplastics and Other Commonly Used Materials".
- Table 9:** "Linear Expansion of Various Substances between 32 and 212°F".
- Table 10:** "Coefficients of Heat Transmission".
- Shortcuts:** A button at the bottom right of the document viewer to access keyboard shortcuts.

- Add Note: 메모 추가 또는 텍스트 하이라이트 표시
- Search within: 현재 검색어를 지우고 새 용어 검색

- 확장 모드: 확장된 보기 화면으로 변환
- Content: 해당 기술서적 원문 목차를 표시
- Save: My knovel에 저장
- Share: 이메일로 현재 보고있는 기술 원문 공유
- Save to Mobile: 모바일 기기로 저장 (Knovel ToGo)
- Download: 현재 보고 있는 원문을 PDF 파일로 내려받기
- Print: 현재 보고 있는 원문을 인쇄
- Citation: Bibtex, EndNote, Mendeley, ProCite, RefMan Refworks 및 Zotero와 같은 다양한 형식의 인용 프로그램으로 내보내기

- 확대/축소
- Sticky Header: 메뉴 자동숨김 해제
- Screen Reader: 원문을 PDF 보기형식으로 전환

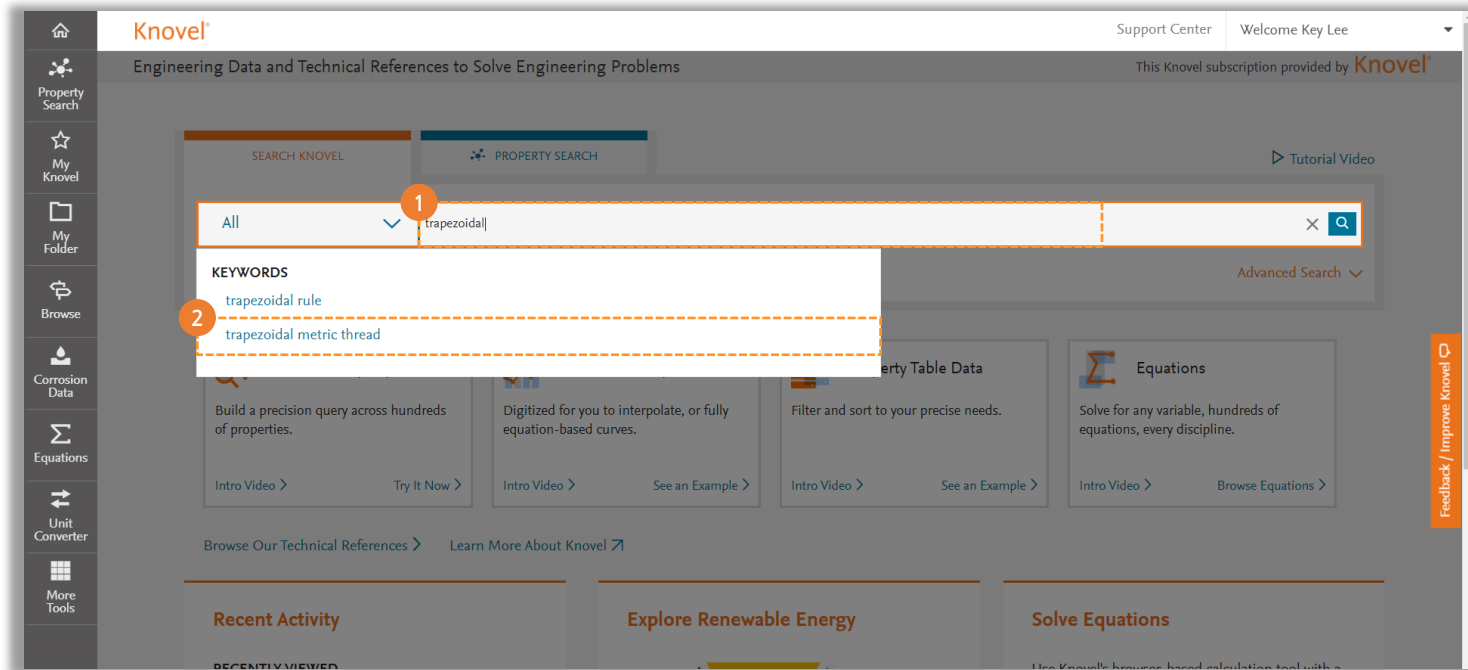
- 이전 / 다음 페이지

- Short cut: Knovel 원문 보기에서 지원되는 단축키 표시

Knovel Resource - Chapter (Trapezoidal Thread)



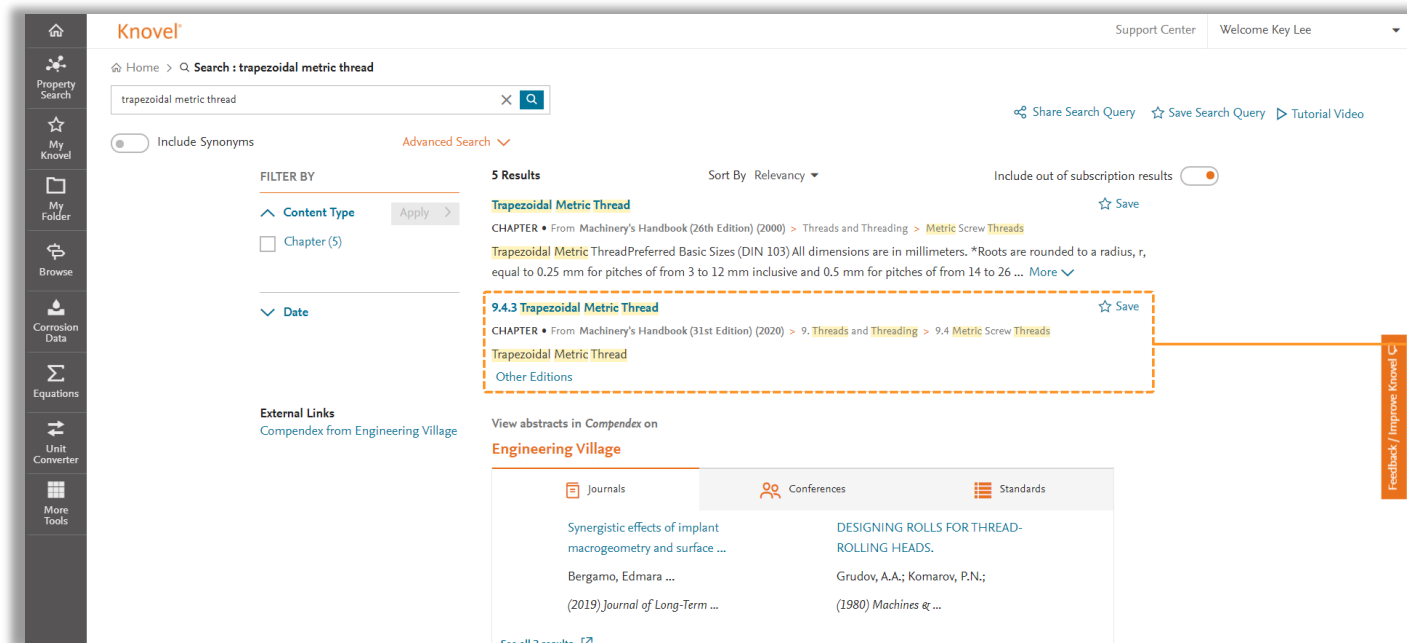
사다리꼴 나사 (Trapezoidal Thread)의 규격을 찾고자 함



- ① 시작페이지의 기본 검색창에서 Trapezoidal 입력
- ② 아래의 키워드인 Trapezoidal metric thread 클릭하여 검색

Knovel Resource - Chapter

- 금회 검색결과는 보다 세밀한 주제분야에 대한 검색이므로 많은 검색결과가 나타나지 않음
- 검색결과 좌측 Chapter 표시는 서적본문 내의 Trapezoidal Metric Tread가 포함된 Chapter



The screenshot shows the Knovel search interface. The search term is 'trapezoidal metric thread'. The results are filtered by 'Content Type' to 'Chapter (5)'. The first result is 'Trapezoidal Metric Thread' from Machinery's Handbook (26th Edition) (2000). The second result is '9.4.3 Trapezoidal Metric Thread' from Machinery's Handbook (31st Edition) (2020), which is highlighted with a dashed orange box. A vertical orange line on the right side of the page points to this result, indicating the next step in the process.

- 검색결과 중 Machinery Handbook (31st Edition) (2021)에서 검색된 9.4.3 Trapezoidal Metric Tread를 클릭 시, 해당 Chapter로 바로 이동

Knovel Resource - Chapter



- 검색결과 중 Machinery Hand Book (31st Edition) (2021) 에서 검색된 9.4.3 Trapezoidal Metric Tread를 클릭 시, Book으로 표시된 검색결과와 다르게 목차와 도서정보가 아닌 원문으로 바로 이동
- 검색결과 중 Chapter로 원문에 바로 이동한 경우의 장점은 필요한 자료를 찾기 위해 서적제목이나, 기타정보로 추론해서 서적을 찾고, 일일이 페이지를 넘기는 수고대신 원하는 정보가 있는 페이지로 곧장 이동되므로 보다 정확하고, 빠른 검색 가능

The screenshot displays the Knovel website interface. The search bar at the top contains 'trapezoidal metric thread'. The search results show a link to '9.4.3 Trapezoidal Metric Thread' from the 'Machinery's Handbook (31st Edition)'. The page content includes a comparison of ISO and DIN standards, a diagram of a trapezoidal metric thread, and a table of formulas for calculating thread dimensions. A search bar on the right side of the page shows the search term 'trapezoidal metric'.

Knovel

Search Knovel

Support Center

Welcome Key Lee

Home > Search : trapezoidal metric thread > Machinery's Handbook (31st Edition) > 9.4.3 Trapezoidal Metric Thread

Content

Save

Share

Save to Mobile

Download

Print

Citations

Hide Header

Screen Reader

Add Note

View Notes

trapezoidal metric

trapezoidal metric

Save to My Knovel

My Knovel

My Folder

Browse

Corrosion Data

Equations

Unit Converter

More Tools

Did this help you?

Yes

No

Machinery's Handbook, 31st Edition

2038

TRAPEZOIDAL METRIC THREAD

Comparison of ISO and DIN Standards.—ISO metric trapezoidal screw threads standard, ISO 2904-1977, describes the system of general purpose metric threads for use in mechanisms and structures. The standard is in basic agreement with trapezoidal metric thread DIN 103. The DIN 103 standard applies a particular pitch for a particular diameter of thread, but the ISO standard applies a variety of pitches for a particular diameter. In ISO 2904-1977, the same clearance is applied to both the major diameter and minor diameter, but in DIN 103 the clearance in the minor diameter is two or three times greater than clearance in the major diameter. A comparison of DIN 103 is given in Table 1.

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Metric Trapezoidal Thread, ISO 2904

Terminology: The term "bolt threads" is used for external screw threads; the term "nut threads" for internal screw threads.

Calculation: The values given in the International standards have been calculated by using the following formulas:

$$H_1 = 0.5P \quad H_2 = H_1 + a_1 = 0.5P + a_1 \quad H_3 = H_1 + a_2 = 0.5P + a_2$$
$$D_1 = d + 2a_1 \quad Z = 0.25P = H_1/2 \quad D_2 = d - 2H_1 = d - P$$
$$D_3 = D - 2a_2 \quad a_1 = D_3 - d - 2Z = d - 0.5P \quad R_{\text{max}} = 0.5a_1 \quad R_{\text{min}} = a_1$$

where a_1 = clearance on the crest; D = major diameter for nut threads; D_2 = pitch diameter

Knovel Resource - Chapter



- 검색결과가 제공되는 Knovel의 서적본문보기는 Google Chrome을 이용하여 해당 메뉴 웹사이트 상에서 번역이 가능함 (기술용어 번역상 일부 오역존재)
- 제공되는 본문의 경우 웹사이트 상에서는 번역이 되지 않지만, 본문 복사(Copy)기능의 활용과 Google 번역 등을 이용하여 본문의 내용을 이해할 수 있음
- 본문의 그림도 Print Screen 등의 도구를 이용하여 캡처가 가능하여, 쉽게 활용할 수 있음

The screenshot displays the Knovel website interface. The main content area shows a technical article titled "Trapezoidal Metric Thread" with a comparison of ISO and DIN standards. A diagram of a metric trapezoidal thread is shown, labeled "Metric Trapezoidal Thread, ISO 2904". The diagram illustrates the internal and external threads with various dimensions: d , d_2 , d_3 , Z , R_1 , R_2 , a_c , H_1 , H_2 , H_3 , H_4 , D_1 , D_2 , and D_3 . The pitch p and lead l are also indicated. The article text discusses the ISO 2904-1977 standard and its agreement with the DIN 103 standard, highlighting differences in pitch and clearance.

Below the article, a translation window is open, showing the Korean translation of the article's content. The window title is "사다리꼴 미터 나사" (Trapezoidal Metric Thread). The text in the window provides a detailed comparison of the ISO and DIN standards, explaining the differences in pitch and clearance between the two systems.

검색 결과 - Text/Content Viewer



- ① 왼쪽 상단의 Save to My Knovel 클릭 후 저장 (참조 또는 자료 공유 가능)
- ② 본문에 하이라이트 기능 사용 가능 (여러 색상 하이라이트)
- ③ 오른쪽 노트 작성 후 저장 (참조 또는 자료 공유 가능)

The screenshot shows the Knovel interface for the article "Steel Wire".

- Annotation 1:** A callout box points to the "Save to My Knovel" button in the top left corner.
- Annotation 2:** A callout box points to a highlighted section of text in the main content area: "Low-carbon steel wire (0.15% C max), Medium-low-carbon steel wire (>0.15 to 0.23% C)".
- Annotation 3:** A callout box points to the "NOTES" sidebar on the right, which contains three notes with timestamps and content related to the article.

Page Header: ASM International, Copyright © 1990 ASM International, "16. Steel Wire Rod", Preceding Part (39 of 117)

Steel Wire

Revised by Allan B. Dove, Consultant

WIRE can be cold drawn from any of the types of carbon steel or alloy steel rod described in the article "Steel Wire Rod" in this Volume. For convenience, the various grades of carbon steel wire can be divided into the same four classes used for carbon steel rod. Based on carbon content, these classes are:

- Low-carbon steel wire (0.15% C max)
- Medium-low-carbon steel wire (>0.15 to 0.23% C)
- Medium-high-carbon steel wire (>0.23 to 0.44% C)
- High-carbon steel wire (>0.44% C)

The conventional four-digit or five-digit American Iron and Steel Institute—Society of Automotive Engineers (AISI-SAE) designations for steel wire measurements is falling from favor, and the use of absolute units is gaining acceptance. Table 1 lists decimal equivalents in inches and millimeters for steel wire gage numbers from 7/0 (12.45 mm, or 0.490 in.) to 50 (0.112 mm, or 0.0044 in.).

Wire 20 gage and smaller in size is usually regarded as fine; wire of these sizes is normally drawn and coiled on 203 mm (8 in.) diam blocks. Larger blocks are used as finished wire diameter increases. For example, 2.34 or 0.092 in. (13 gage) wire is normally drawn on 559 mm (22 in.) blocks. Table 2 indicates the usual block sizes by gages for wires between 0.889 and 12.70 mm (0.035 and 0.500 in.).

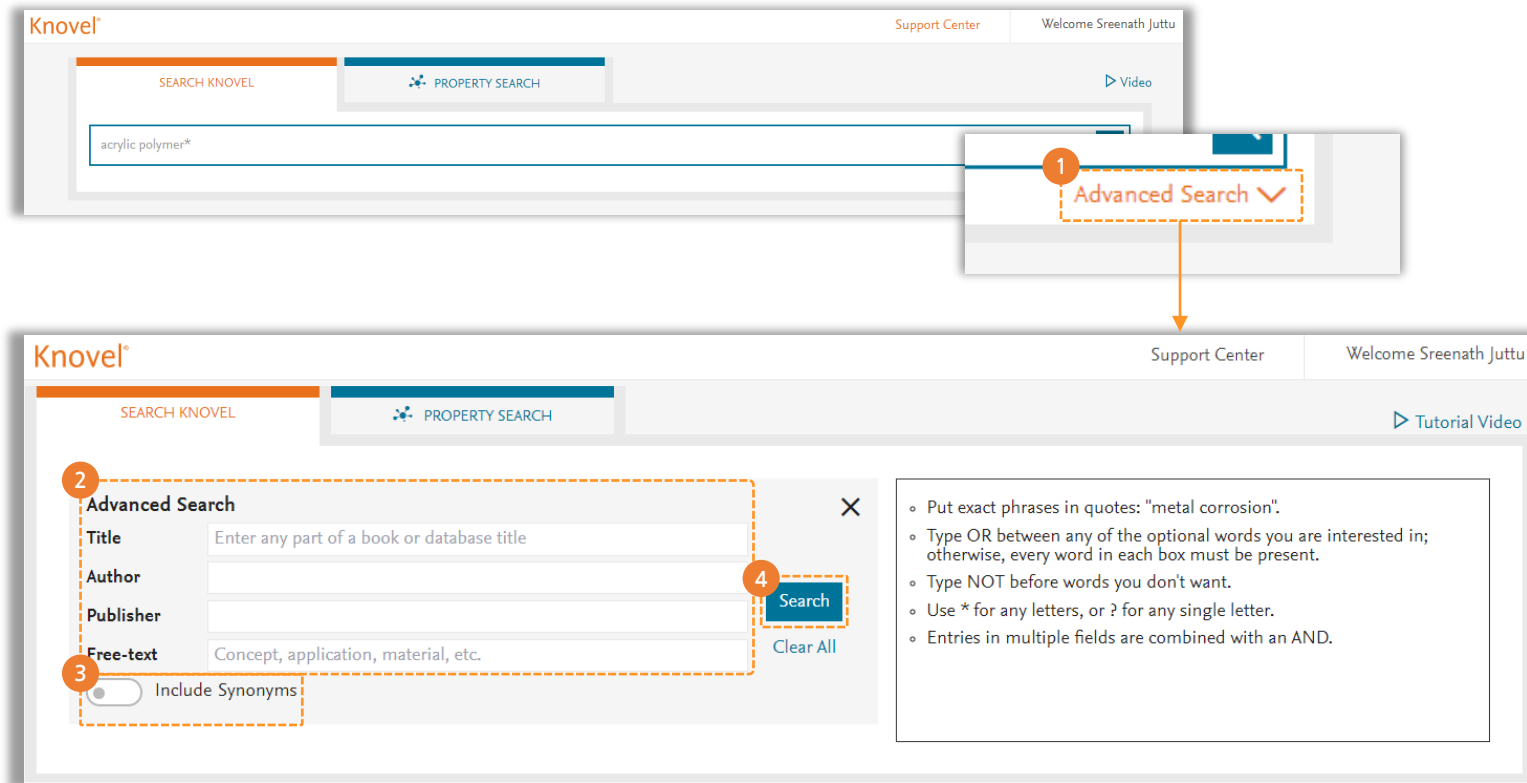
Wire in gages 17 to 19 may be regarded as

NOTES:

- 04:13 PM Oct 23, 2018: "Low-carbon steel flat wire can also be produced by slitting cold-rolled flat sheet or strip steel to the desired width." Refer to colleague
- 04:15 PM Oct 23, 2018: "Medium-low-carbon steel wire (>0.15 to 0.23% C)" For future reference
- 04:15 PM Oct 23, 2018: "the usual block sizes by gages for wires between 0.889 and 12.70 mm (0.035 and 0.500 in.)." Relevant for Project A

Advanced Search

Advanced Search: 검색 조건을 설정하여 서적 확인 가능



The image shows two screenshots of the Knovel website's search interface. The top screenshot shows the main search bar with the text "acrylic polymer*" and a dropdown menu for "Advanced Search" highlighted with a red circle and arrow labeled "1". The bottom screenshot shows the "Advanced Search" form with four numbered callouts: "2" points to the "Title" field, "3" points to the "Include Synonyms" toggle, "4" points to the "Search" button, and a separate box on the right contains search tips.

Knovel® Support Center Welcome Sreenath Juttu

SEARCH KNOVEL PROPERTY SEARCH Video

acrylic polymer*

1 Advanced Search

Knovel® Support Center Welcome Sreenath Juttu

SEARCH KNOVEL PROPERTY SEARCH Tutorial Video

2 Advanced Search

Title Enter any part of a book or database title

Author

Publisher

Free-text Concept, application, material, etc.

3 Include Synonyms

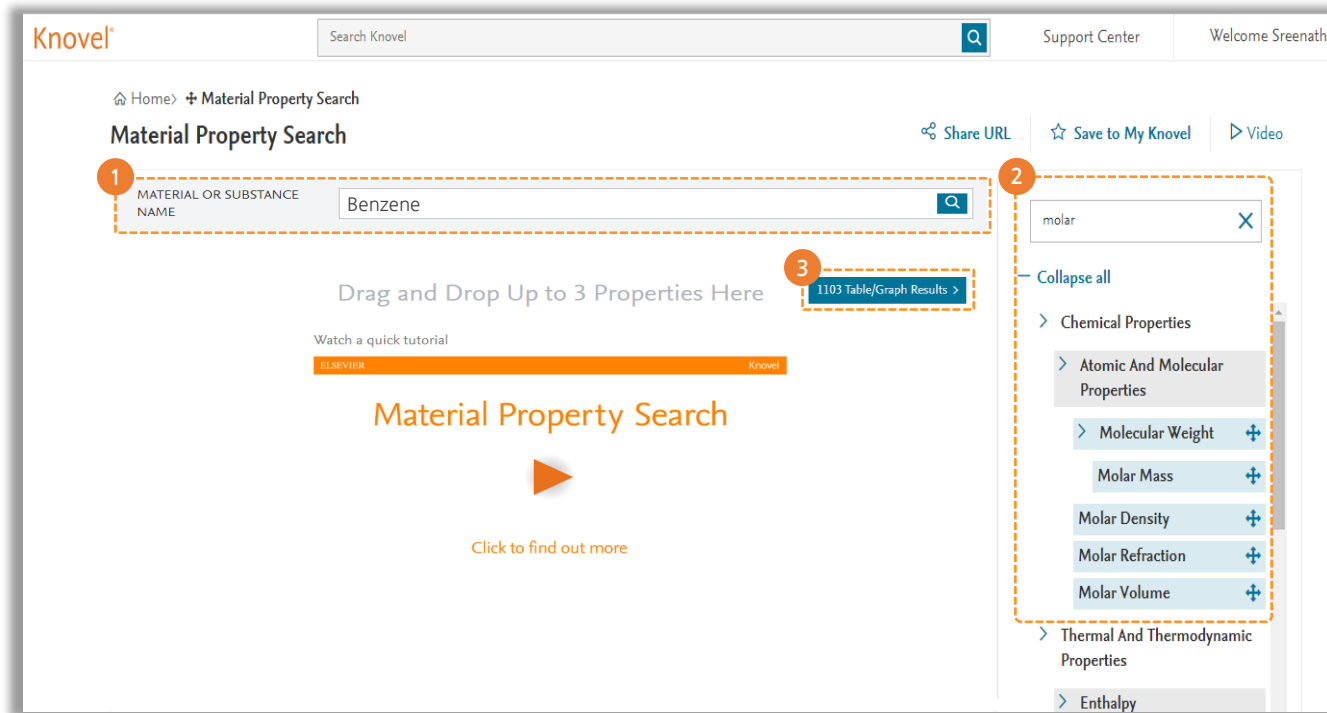
4 Search Clear All

- Put exact phrases in quotes: "metal corrosion".
- Type OR between any of the optional words you are interested in; otherwise, every word in each box must be present.
- Type NOT before words you don't want.
- Use * for any letters, or ? for any single letter.
- Entries in multiple fields are combined with an AND.

- 1 검색창 오른쪽의 Advanced Search 클릭
- 2 각 항목에 맞는 검색어 입력
- 3 Include Synonyms 활성화 시, 동의어를 포함하여 검색
- 4 Search 클릭 후 검색 완료

Material Property Search

Material Property Search: 구체적인 물성으로 재료 검색 - Drag&Drop 기능 사용



Knovel[®] Search Knovel Support Center Welcome Sreenath

Home > Material Property Search

Material Property Search

Share URL Save to My Knovel Video

1 MATERIAL OR SUBSTANCE NAME Benzene

2 molar

3 1103 Table/Graph Results >

Drag and Drop Up to 3 Properties Here

Watch a quick tutorial

Material Property Search

Click to find out more

- ① Knovel 홈페이지 접속 - Property Search 클릭 후 검색 또는 “WIZARD”를 통해 재료 또는 대체재 검색
- ② 오른쪽에서 물성 선택 후 Drag&Drop 하여 왼쪽으로 옮기기
- ③ 검색 결과 확인

기타 기능 및 문의 지원

- [My Knovel](#)
- [Interactivity - Interactive Equations](#)
- [Interactivity - Interactive Tables](#)
- [Interactivity - Interactive Graphs](#)
- [문의 및 지원](#)

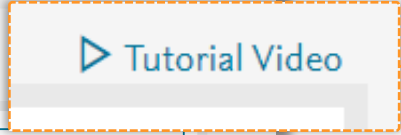
My Knovel



Knovel[®] Support Center Welcome Veronica Hahn
Engineering Data and Technical References to Solve Engineering Problems This Knovel subscription provided by Kn

SEARCH KNOVEL PROPERTY SEARCH

All "tool steels" Include Synonyms Advanced Search



• Tutorial Video: Knovel 튜토리얼 영상 확인

Knovel[®] Beta Search Knovel Support Center Welcome, Matteo Caligaris

Home > Search for 'pressure vessel' > Chemical Process Safety ... Histories (4th Edition) > 12.14 Inspection of Pressure Vessels and Storage Tanks

Content Save Share Save for Mobile Download Print Citations Add Note View Notes pressure vessel

You can save this resource to My Knovel for later viewing

Note

storage tanks

the OSHA process safety law is to equipment classification system is a ple system involving three classes at section specifically for pressure

nt whose failure would result in unconsulting in accidental fires or explosions.

NOTES View All Colors

Search within notes

09:19 AM Aug 8 2017

class 1 issues

• 노트 작성, 저장 및 공유 가능

Knovel[®] Beta Search Knovel Support Center Welcome, Matteo Caligaris

My Knovel My Activity My Saved Items My Profile

My Folders + Add Folder

- Unified Items
- MyPocket
- Project 1

Shared Folders

None

Filter saved items ...

UNFILED ITEMS

- All Content
- 12. The Role of Mechanical Integrity in Chemical Process Safety

Clear History

Filter activities...

- All Time
- TODAY
- 12.14 Inspection of Pressure Vessels and Storage Tanks From Chemical Process Safety - Learning from Case Histories (4th Edition)
- Search for 'pressure vessel'
- Table 12. Vapor Pressure - Organic Compounds, log P = A - B(T + C)

• My Saved items: 저장된 contents, notes, data

• My Activity: 마지막 활동 시점 확인

My Knovel



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Home > Search for: haber process

haber process [X] [Q] Share Search Results Save Search Query Video

Advanced Search

Refine By Related Concept

- ammonia synthesis
- nitrogenase
- chemical reaction ...
- nitrogen cycle

All (260+) Books / Text (240+) Definitions (17)

Sort by Relevancy < 1 2 3 ... 27 > Include out of subscription results

New [BOOK] Predictive Control in Process Engineering - From the Basics to the Applications Save Result Feedback

- 검색 결과, 서적 등을 My Knovel에 저장

Knovel® Search Knovel Support Center Welcome Sreenath Juttu

Home > Search for: haber process > Hydrogen Generation, Storage, and Utilization > 10.3.1 Ammonia Production: The Haber Process Info

Save to My Knovel

Hydrogen Utilization in Chemical Industry 181

```
graph TD; N["Nitrogen<br/>From air"]; H["Hydrogen<br/>From air"]; C["Compressor"]; R["Reactor<br/>15-25 Mpa,<br/>300-500°C,<br/>Catalyst"]; CC["Cooling Chamber"]; P["Liquid ammonia<br/>as product"]; UG["Unreacted gas<br/>(N2 and H2)"]; N --> C; H --> C; C --> R; R --> CC; CC --> P; CC --> UG; UG --> C;
```

FIGURE 10.6 A flow chart illustration of the main components in a typical Haber process [11].

- 검색 쿼리 저장

SHARE THIS SEARCH

https://app.knovel.com/web/search.v?q=haber%20process&search_type=tech-reference&ro

Enter the email addresses of people you'd like to share this Search:

Separate multiple addresses with commas

Enter a message you'd like to appear with your item (optional):

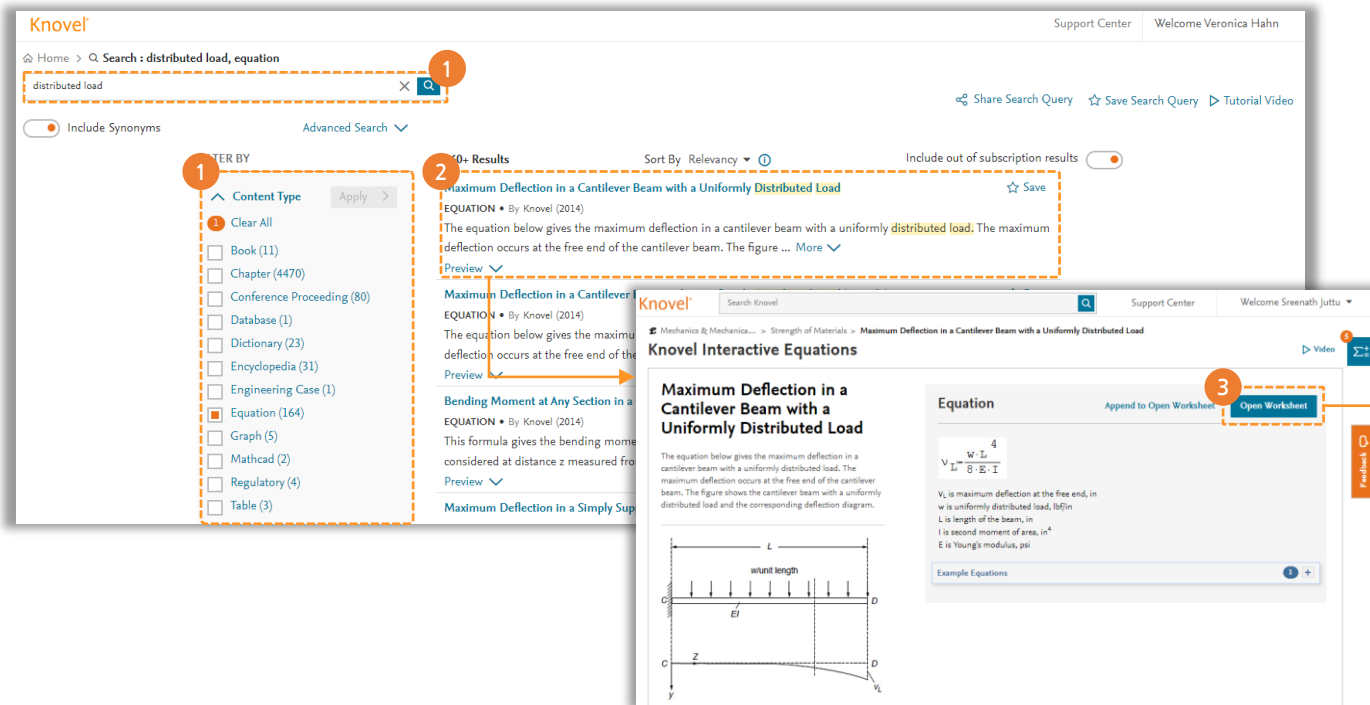
Cancel Share via Email

- 검색 결과 공유하기

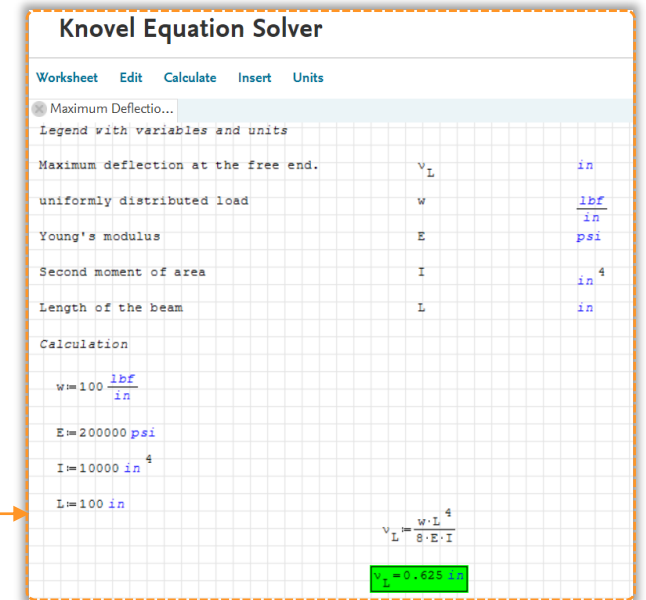
Interactivity - Interactive Equations

Interactive Equations 확인

- ① Search Results에서 검색 후 왼쪽의 Type - Equation 선택
- ② 필요한 Equation 선택
- ③ 오른쪽의 Open Worksheet 클릭
- ④ Interactive Equation 확인



The screenshot shows the Knovel search results page. The search query is "distributed load, equation". The results are filtered by "Content Type" to "Equation (164)". The first result is "Maximum Deflection in a Cantilever Beam with a Uniformly Distributed Load". The "Open Worksheet" button is highlighted with a red circle and arrow, indicating step 3 of the process.

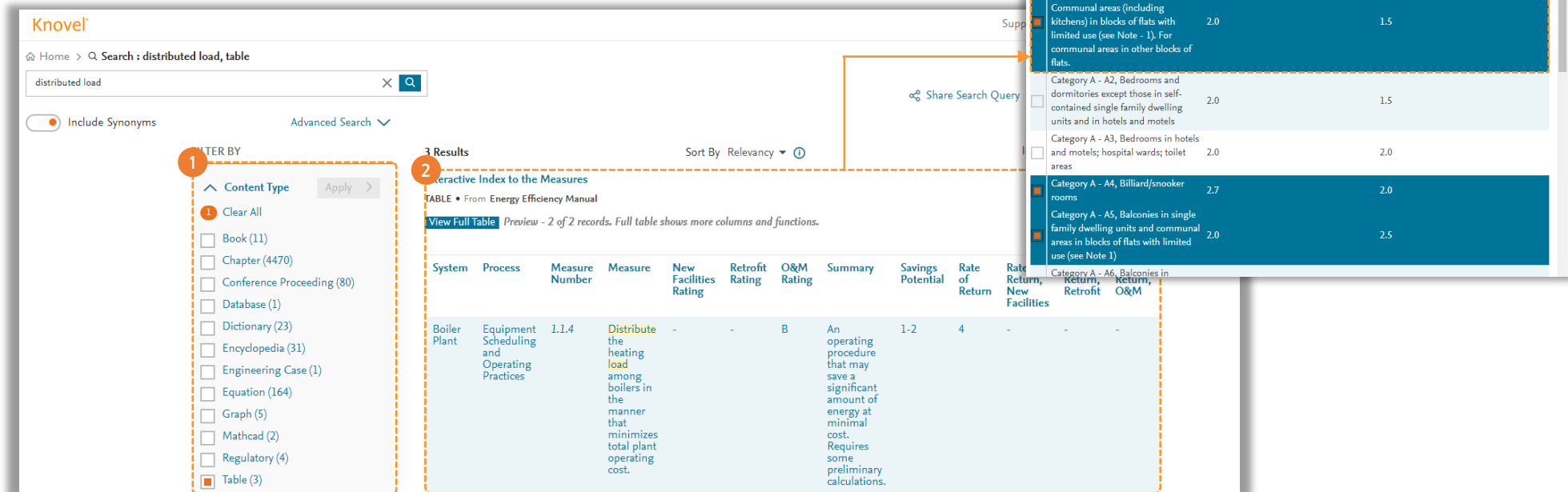


The screenshot shows the Knovel Equation Solver interface. The equation is $V_L = \frac{w \cdot L^4}{8 \cdot E \cdot I}$. The variables are defined as: $w = 100 \frac{\text{lb}}{\text{in}}$, $E = 200000 \text{ psi}$, $I = 10000 \text{ in}^4$, and $L = 100 \text{ in}$. The solution is $V_L = 0.625 \text{ in}$.

Interactivity - Interactive Tables

Interactive Tables 확인

- 1 Search Results에서 검색 후 왼쪽의 Type - Table 선택
- 2 필요한 Table 선택
- 3 Table 수정 가능 - 선택 후 이동 또는 삭제
- 4 저장 후 반출



Knovel

Home > Search: distributed load, table

distributed load

Include Synonyms

Advanced Search

Filter by

- Content Type
- Clear All
- Book (11)
- Chapter (4470)
- Conference Proceeding (80)
- Database (1)
- Dictionary (23)
- Encyclopedia (31)
- Engineering Case (1)
- Equation (164)
- Graph (5)
- Mathcad (2)
- Regulatory (4)
- Table (3)**

3 Results

Sort By Relevancy

Interactive Index to the Measures

TABLE • From Energy Efficiency Manual

View Full Table | Preview - 2 of 2 records. Full table shows more columns and functions.

System	Process	Measure Number	Measure	New Facilities Rating	Retrofit Rating	O&M Rating	Summary	Savings Potential	Rate of Return	Rate Return, New Facilities	Rate Return, Retrofit	Rate Return, O&M
Boiler Plant	Equipment Scheduling and Operating Practices	1.1.4	Distribute the heating load among boilers in the manner that minimizes total plant operating cost.	-	-	B	An operating procedure that may save a significant amount of energy at minimal cost. Requires some preliminary calculations.	1-2	4	-	-	-

Table NA.3 of EN 1991-1-1. Imposed Loads on Floors, Balconies and Stairs in Buildings

distributed load

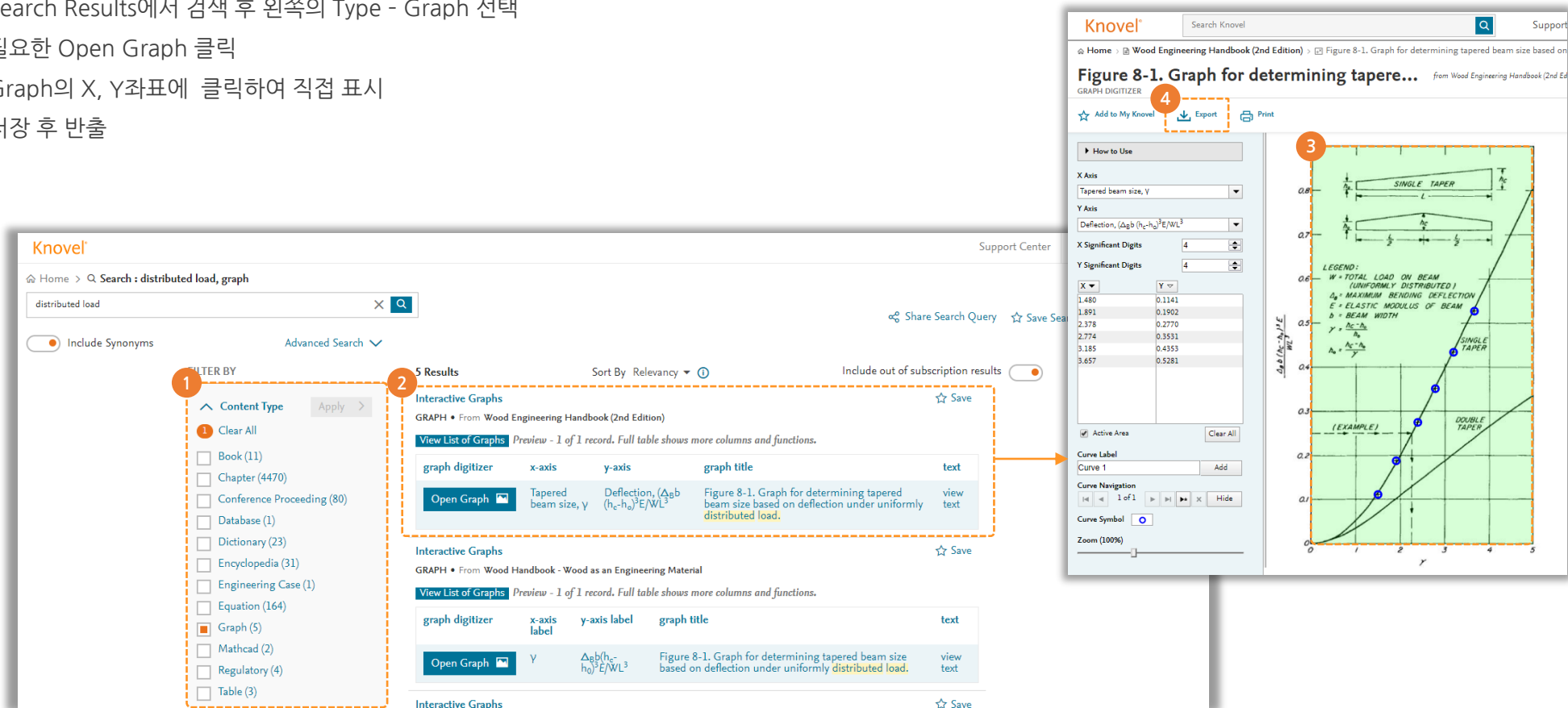
Cancel Selection | Show Selection | 3 Rows Selected | Rows 1 - 29 of 29 | Page 1 of 1

Category of loaded area	Concentrated load, Q_k (kN)	Uniformly distributed load, q_k (kN/m ²)
Category A - A1, All usages within self-contained dwelling units. Communal areas (including kitchens) in blocks of flats with limited use (see Note - 1). For communal areas in other blocks of flats.	2.0	1.5
Category A - A2, Bedrooms and dormitories except those in self-contained single family dwelling units and in hotels and motels	2.0	1.5
Category A - A3, Bedrooms in hotels and motels; hospital wards; toilet areas	2.0	2.0
Category A - A4, Billiard/snooker rooms	2.7	2.0
Category A - A5, Balconies in single family dwelling units and communal areas in blocks of flats with limited use (see Note 1)	2.0	2.5
Category A - A6, Balconies in		

Interactivity - Interactive Graphs

Interactive Graphs 확인

- ① Search Results에서 검색 후 왼쪽의 Type - Graph 선택
- ② 필요한 Open Graph 클릭
- ③ Graph의 X, Y좌표에 클릭하여 직접 표시
- ④ 저장 후 반출



The screenshot illustrates the Knovel interface for interacting with graphs. It shows a search for 'distributed load, graph' with 5 results. The first result is an interactive graph titled 'Figure 8-1. Graph for determining tapered beam size based on deflection under uniformly distributed load.' The graph shows a plot of $\frac{\Delta_{ab}(h_c - h_0)^3}{h_0^3 E W L^3}$ versus γ . The graph includes a legend and a table of data points.

X	Y
1.480	0.1141
1.891	0.1902
2.378	0.2770
2.774	0.3531
3.185	0.4353
3.657	0.5281

The graph also includes a legend:

- W = TOTAL LOAD ON BEAM (UNIFORMLY DISTRIBUTED)
- Δ_b = MAXIMUM BENDING DEFLECTION
- E = ELASTIC MODULUS OF BEAM
- b = BEAM WIDTH
- $\gamma = \frac{h_c - \Delta_b}{h_0}$
- $h_0 = \frac{h_c - \Delta_b}{\gamma}$

The graph is labeled 'SINGLE TAPER' and 'DOUBLE TAPER'. The x-axis is labeled γ and the y-axis is labeled $\frac{\Delta_{ab}(h_c - h_0)^3}{h_0^3 E W L^3}$. The graph shows a curve that increases as γ increases. The graph is titled 'Figure 8-1. Graph for determining tapered beam size based on deflection under uniformly distributed load.'

문의 및 지원 요청



- Knovel 문의: Knovel 홈페이지 오른쪽 상단 [Support Center](#) 클릭 (튜토리얼 영상, FAQ)
- 지원 문의: Knovel 페이지 하단의 [Contact us](#) 클릭

The screenshot displays the Knovel website interface. At the top right, the 'Support Center' link is highlighted with an orange dashed box. Below the main navigation bar, there are search options: 'SEARCH KNOVEL' and 'PROPERTY SEARCH'. A search bar contains the text 'Search Knovel for Reference Data, Graphs, Tables, Equations...' and a search icon. Below the search bar, there is a dropdown menu set to 'All' and a checkbox for 'Include Synonyms'. In the footer, the 'Contact Us' link is highlighted with an orange dashed box. The footer also contains the Elsevier logo, copyright information, and various links such as 'Terms and conditions', 'Privacy Policy', 'Map', 'Release Notes', and 'About Knovel' with sub-links for 'Aerospace & Defense', 'Chemical Engineering', 'Corporate Education & Research', 'Engineering Design & Construction', 'Equipment Manufacturing', 'Oil & Gas', and 'Knovel Labs'. A cookie notice is also present at the bottom.