

Chapter 6

Design of PE Piping Systems

Introduction

Design of a PE piping system is essentially no different than the design undertaken with any ductile and flexible piping material. The design equations and relationships are well-established in the literature, and they can be employed in concert with the distinct performance properties of this material to create a piping system which will provide very many years of durable and reliable service for the intended application.

In the pages which follow, the basic design methods covering the use of PE pipe in a variety of applications are discussed.

The material is divided into four distinct sections as follows:

Section 1 covers Design based on Working Pressure Requirements. Procedures are included for dealing with the effects of temperature, surge pressures, and the nature of the fluid being conveyed, on the sustained pressure capacity of the PE pipe.

Section 2 deals with the hydraulic design of PE piping. It covers flow considerations for both pressure and non-pressure pipe.

Section 3 focuses on burial design and flexible pipeline design theory. From this discussion, the designer will develop a clear understanding of the nature of pipe/soil interaction and the relative importance of trench design as it relates to the use of a flexible piping material.

Finally, **Section 4** deals with the response of PE pipe to temperature change. As with any construction material, PE expands and contracts in response to changes in temperature. Specific design methodologies will be presented in this section to address this very important aspect of pipeline design as it relates to the use of PE pipe.

Chapter 6 Design Of Pe Piping Systems

A. P. Moser, Steve Folkman



Chapter 6 Design Of Pe Piping Systems:

PE Pipe Design and Installation American Water Works Association,2006 This new manual provides the reader with both technical and general information to aid in the design specification procurement installation and understanding of HDPE polyethalene pipe and fittings It is intended for use by utilities and municipalities of all sizes **Handbook of Thermoplastic Piping System Design** Thomas Sixsmith,Reinhard Hanselka,1997-07-15 Offers coverage of design engineering chemical resistance costs standards codes and specifications The text provides a resistance guide that lists over 800 chemicals and nearly 400 trade names cross referenced to formal chemical names covering all known chemical resistance data for the most popular thermoplastic piping systems The book cove [The Aubin Academy Master Series: AutoCAD MEP 2012](#) Paul Aubin,MR Darryl McClelland Leed/A,Darryl McClelland,MR Martin Schmid Pe,Martin Schmid,Gregg Stanley,2011-07 The Aubin Academy Master Series AutoCAD MEP is a concise manual focused squarely on the rationale and practicality of the AutoCAD MEP process The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools The goal of each lesson is to help the reader complete their projects successfully Tools are introduced together in a focused process with a strong emphasis on why as well as how The text and exercises seek to give the reader a clear sense of the value of the tools and a clear indication of each tool s potential The Aubin Academy Master Series AutoCAD MEP is a resource designed to shorten your learning curve raise your comfort level and most importantly give you real life tested practical advice on the usage of the software to create mechanical electrical and plumbing designs and calculations Empowered with the information within this book the reader will have insight into how to use AutoCAD MEP to create construction documents that are reflective of their standards and expectations

District Cooling Alaa A. Olama,2016-11-03 DISTRICT COOLING THEORY and PRACTICE provides a unique study of an energy cogeneration system set up to bring chilled water to buildings offices apartment houses and factories needing cooling for air conditioning and refrigeration In winter the source for the cooling can often be sea water so it is a cheaper resource than using electricity to run compressors for cooling The related technology of District Heating has been an established engineering practice for many years but District Cooling is a relatively new technology now being implemented in various parts of the world including the USA Arab Emirates and Kuwait and Saudi Arabia Existing books in the area are scarce and do not address many of the crucial issues facing nations with high overall air temperatures many of which are developing District Cooling plans using sea water DISTRICT COOLING THEORY PRACTICE integrates the theory behind district cooling planning with the practical engineering approaches so it can serve the policy makers engineers and planners whose efforts have to be coordinated and closely managed to make such systems effective and affordable In times of rising worldwide temperatures District Cooling is a way to provide needed cooling with energy conservation and sustainability This book will be the most up to date and comprehensive study on the subject with Case Studies describing real projects in detail

ASHRAE Handbook ,2007 **Pumping Station Design** Garr M. Jones PE DEE,Robert L. Sanks PhD PE,2011-04-19
Pumping Station Design 3e is an essential reference for all professionals From the expert city engineer to the new design officer this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well integrated pumping station that is reliable easy to operate and maintain and free from design mistakes The depth of experience and expertise of the authors contributors and peers reviewing the content as well as the breadth of information in this book is unparalleled making this the only book of its kind An award winning reference work that has become THE standard in the field Dispenses expert information on how to produce a well integrated pumping station that will be reliable easy to operate and maintain and free from design mistakes 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 New material added to this edition includes the latest design information the use of computers for pump selection extensive references to Hydraulic Institute Standards and much more ASPE Data Book, 1983-1984: Fundamentals of plumbing design ,1983 *BURIED PIPE DESIGN 3/E* A. P. Moser,Steve Folkman,2008-07-15 Unearth the Secrets of Designing and Building High Quality Buried Piping Systems This brand new edition of Buried Pipe Design helps you analyze the performance of a wide range of pipes so you can determine the proper pipe and installation system for the job Covering almost every type of rigid and flexible pipe this unique reference identifies and describes factors involved in working with sewer and drain lines water and gas mains subway tunnels culverts oil and coals slurry lines and telephone and electrical conduits It provides clear examples for designing new municipal drinking and wastewater systems or rehabilitating existing ones that will last for many years on end Comprehensive in scope and meticulously detailed in content this is the pipe design book you ll want for a reference This NEW edition includes Important data on the newest pipe styles including profile wall polyethylene Updated references to ASTM AWWA and ASHTTO standards Numerous examples of specific types of pipe system designs Safety precautions included in installation specifications Greater elaboration on trenchless technology methods New information on the cyclic life of PVC pressure pipe Buried Pipe Design covers the ins and outs of External Loads Gravity Flow Pipe Design Pressure Pipe Design Rigid Pipe Products Flexible Steel Pipe Flexible Ductile Iron Pipe Flexible Plastic Pipe Pipe Installation Trenchless Technology
National Fire Codes National Fire Protection Association,2004 **Water Distribution Operator Training Handbook** ,2005 AWWA s most popular handbook for distribution operators this handbook provides a complete introduction to water distribution system operation and equipment *Engineering Record, Building Record and Sanitary Engineer* ,1909
Energy Research Abstracts ,1981 *Power Plant Systems/components Aging Management and Life Extension*, 1991 J. Sinnappan,1991 **Mechanical Engineering Reference Manual for the PE Exam** Michael R. Lindeburg,2006 As the most comprehensive reference and study guide available for engineers preparing for the breadth and depth mechanical PE examination the twelfth edition of the Mechanical Engineering Reference Manual provides a concentrated review of the exam

topics Thousands of important equations and methods are shown and explained throughout the Reference Manual plus hundreds of examples with detailed solutions demonstrate how to use these equations to correctly solve problems on the mechanical PE exam Dozens of key charts tables and graphs including updated steam tables and two new charts of LMTD heat exchanger correction factors make it possible to work most exam problems using the Reference Manual alone A complete easy to use index saves you valuable time during the exam as it helps you quickly locate important information needed to solve problems _____ Since 1975 more than 2 million people preparing for their engineering surveying architecture LEED R interior design and landscape architecture exams have entrusted their exam prep to PPI For more information visit us at www.ppi2pass.com

Facility Piping Systems Handbook Michael Frankel,2002 Plan select design specify and test entire piping systems Facility Piping Systems Handbook Second Edition gives you a complete design guide and reference for all piping systems including those in laboratories and health care facilities This new edition includes metric units throughout updated codes and standards and new material on flow level measurement drinking water systems septic systems and hot water circulating systems You ll also find helpful material on pipe space requirements and fixture mounting heights Complete with formulas charts and tables that increase your on the job efficiency this all in one Handbook by Michael Frankel provides you with Techniques for selecting appropriate piping valves pumps tanks and other equipment involved with piping systems Information on heat loss insulation freeze protection water treatment and purification and filtration and separation All necessary system design criteria Examples of system design procedures using actual field conditions Listings of FDA EPA and OSHA requirements

Trenchless Technology : Pipeline and Utility Design, Construction, and Renewal Mohammad Najafi,2004-12-27 Trenchless technology allows for the installation or renewal of underground utility systems with minimum disruption of the surface As water and wastewater systems age or must be redesigned in order to comply with environmental regulations the demand for this technology has dramatically increased This is a detailed reference covering construction details design guidelines environmental concerns and the latest advances in equipment methods and materials Design and analysis procedures Design equations Risk assessment Soil compatibility and more

H-6 Design Guide to the Uniform Codes for High Tech Facilities Alfred Goldberg (P.E.),Larry Fluer,1986
Manual of Wastewater Operations Texas Water Utilities Association,1971 *Plumbing Engineer* ,1993 **Index and Directory of U.S. Industry Standards** ,1987

Chapter 6 Design Of Pe Piping Systems Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Chapter 6 Design Of Pe Piping Systems**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

https://db1.greenfirefarms.com/data/book-search/Download_PDFS/What%20Is%20Ai%20Video%20Generator%20For%20Moms%20For%20Experts%2019446.pdf

Table of Contents Chapter 6 Design Of Pe Piping Systems

1. Understanding the eBook Chapter 6 Design Of Pe Piping Systems
 - The Rise of Digital Reading Chapter 6 Design Of Pe Piping Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 6 Design Of Pe Piping Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 6 Design Of Pe Piping Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 6 Design Of Pe Piping Systems
 - Personalized Recommendations
 - Chapter 6 Design Of Pe Piping Systems User Reviews and Ratings
 - Chapter 6 Design Of Pe Piping Systems and Bestseller Lists

5. Accessing Chapter 6 Design Of Pe Piping Systems Free and Paid eBooks
 - Chapter 6 Design Of Pe Piping Systems Public Domain eBooks
 - Chapter 6 Design Of Pe Piping Systems eBook Subscription Services
 - Chapter 6 Design Of Pe Piping Systems Budget-Friendly Options
6. Navigating Chapter 6 Design Of Pe Piping Systems eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 6 Design Of Pe Piping Systems Compatibility with Devices
 - Chapter 6 Design Of Pe Piping Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 6 Design Of Pe Piping Systems
 - Highlighting and Note-Taking Chapter 6 Design Of Pe Piping Systems
 - Interactive Elements Chapter 6 Design Of Pe Piping Systems
8. Staying Engaged with Chapter 6 Design Of Pe Piping Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 6 Design Of Pe Piping Systems
9. Balancing eBooks and Physical Books Chapter 6 Design Of Pe Piping Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 6 Design Of Pe Piping Systems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 6 Design Of Pe Piping Systems
 - Setting Reading Goals Chapter 6 Design Of Pe Piping Systems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 6 Design Of Pe Piping Systems
 - Fact-Checking eBook Content of Chapter 6 Design Of Pe Piping Systems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Chapter 6 Design Of Pe Piping Systems Introduction

In the digital age, access to information has become easier than ever before. The ability to download Chapter 6 Design Of Pe Piping Systems has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Chapter 6 Design Of Pe Piping Systems has opened up a world of possibilities. Downloading Chapter 6 Design Of Pe Piping Systems provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Chapter 6 Design Of Pe Piping Systems has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Chapter 6 Design Of Pe Piping Systems. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Chapter 6 Design Of Pe Piping Systems. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Chapter 6 Design Of Pe Piping Systems, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from.

In conclusion, the ability to download Chapter 6 Design Of Pe Piping Systems has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Chapter 6 Design Of Pe Piping Systems Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Chapter 6 Design Of Pe Piping Systems is one of the best book in our library for free trial. We provide copy of Chapter 6 Design Of Pe Piping Systems in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Chapter 6 Design Of Pe Piping Systems. Where to download Chapter 6 Design Of Pe Piping Systems online for free? Are you looking for Chapter 6 Design Of Pe Piping Systems PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Chapter 6 Design Of Pe Piping Systems. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Chapter 6 Design Of Pe Piping Systems are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there

are specific sites catered to different product types or categories, brands or niches related with Chapter 6 Design Of Pe Piping Systems. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Chapter 6 Design Of Pe Piping Systems To get started finding Chapter 6 Design Of Pe Piping Systems, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Chapter 6 Design Of Pe Piping Systems So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Chapter 6 Design Of Pe Piping Systems. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Chapter 6 Design Of Pe Piping Systems, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Chapter 6 Design Of Pe Piping Systems is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Chapter 6 Design Of Pe Piping Systems is universally compatible with any devices to read.

Find Chapter 6 Design Of Pe Piping Systems :

[what is ai video generator for moms for experts 19446](#)

[pro budgeting tips full tutorial for workers 19676](#)

[best way to pilates for beginners for students for beginners 18842](#)

[easy blog post ideas for beginners for students 19983](#)

[pro ai image generator for creators for workers 20104](#)

[simple ai image generator ideas for students 20242](#)

[how to use sleep hygiene tips for small business for workers 19213](#)

[easy sleep hygiene tips 2025 for workers 18742](#)

[beginner friendly side hustles usa for creators 20152](#)

[top method for index fund investing for small business for creators 19161](#)

[top method for gut health foods full tutorial for students 20124](#)

[pro minimalist lifestyle for creators for workers 18709](#)

[beginner friendly ai video generator for moms for beginners 18700](#)

affordable ai video generator usa for students 19312

ultimate ai video generator step plan for creators 19641

Chapter 6 Design Of Pe Piping Systems :

The Trustee's Manual: 10 Rules for Church Leaders ... The Trustee's Manual provides church leaders with 10 Biblical rules than help church leadership become effective leaders and follow the Words of Christ. Jesus ... Handbook of Policies, Procedures, and Fees Jan 23, 2018 — BOARD OF TRUSTEES. Beulah Missionary Baptist Church. The Reverend Jerry D. Black, Pastor. Handbook of Policies,. Procedures, and Fees. January ... The Work of the Church Trustee by Tibbetts, Orlando L. This comprehensive guide will deepen and broaden the trustee's sense of ministry and mission in his or her service to the church. It covers every facet of ... Trustees Handbook Jan 19, 2017 — - Specific responsibilities shared by the boards include: stewardship; effective cooperation and coordination of board activities; communication ... HOW TO BE A TRUSTEE IN A CHURCH FIRST EDITION ... This booklet is our attempt at 'the idiot's guide' to being a trustee in a vineyard church. Let me say now that our trustees in no way deserve the title of ... WORK OF THE CHURCH TRUSTEE ... trustee's sense of ministry and mission in his/her service to the church. An excellent tool for new or experienced board members, this book covers every ... RESPONSIBILITIES OF CHURCH TRUSTEES The following is a sample list of what might be reflected in a church constitution: The Trustees shall be responsible for all legal obligations for the church ... Trustees Manual Review annually the adequacy of property, liability, crime and insurance coverage on church-owned property, buildings and equipment. 4. Review annually the ... Baptist Handbook F Baptist Handbook For Church ... For many years I have felt the need of a small book on church membership, written from the viewpoint of an independent Baptist, to place in the hands of members ... BUGB Trustee Board Governance Handbook This handbook is intended to be used as a reference tool for the Trustees of the Baptist Union of Great Britain (BUGB), the charitable body behind Baptists ... Theory Of Vibrations With Applications 5th Edition ... Access Theory of Vibrations with Applications 5th Edition solutions now. Our solutions are written by Chegg experts so you can be assured of the highest ... Theory of Vibration With Application 5th Solution PDF Theory of Vibration With Application 5th Solution PDF | PDF | Nature | Teaching Mathematics. Theory of Vibration With Application 5th Solution | PDF Theory of Vibration with application 5th Solution - Free ebook download as PDF File (.pdf) or read book online for free. Solution manual for the 5th edition ... Solutions to Theory of Vibration with Applications 5e ... These are my solutions to the fifth edition of Theory of Vibration with Applications by Thomson and Dahleh. Solution Manual-Theory of Vibration With Application-3rd- ... Solution Manual-Theory of Vibration With Application-3rd-Thomson. Solution Manual-Theory of Vibration With Application-3rd-Thomson. Theory of vibration with applications : solutions manual Theory of vibration with applications : solutions manual. Authors: William Tyrrell Thomson, Marie Dillon Dahleh. Front cover image for Theory of vibration ...

(PDF) Theory of vibration with application 3rd solution Theory of vibration with application 3rd solution. Theory of Vibration with Applications: Solutions Manual Title, Theory of Vibration with Applications: Solutions Manual. Author, William Tyrrell Thomson. Edition, 2. Publisher, Prentice-Hall, 1981. Theory of Vibration with application 5th Solution - dokumen.tips

DESCRIPTION. Solution manual for the 5th edition of theory of vibration with application. Citation preview. Page 1. Page 1: Theory of Vibration with ... Theory Of Vibration With Applications (Solutions Manual) Theory Of Vibration With Applications (Solutions Manual) by William T. Thomson - ISBN 10: 013914515X - ISBN 13: 9780139145155 - Prentice Hall - Softcover. A courageous people from the Dolomites: The immigrants ... A courageous people from the Dolomites: The immigrants from Trentino on U.S.A. trails [Bolognani, Boniface] on Amazon.com. *FREE* shipping on qualifying ... A Courageous people from the Dolomites : the immigrants ... A Courageous people from the Dolomites : the immigrants from Trentino on U.S.A. trails. Author: Bonifacio Bolognani (Author). Bonifacio Bolognani: Books A Courageous People from the Dolomites: The Immigrants from Trentino on U.S.A. Trails. by Bonifacio Bolognani · 4.74.7 out of 5 stars (6) · Paperback. Currently ... the immigrants from Trentino on U.S.A. trails A courageous people from the Dolomites : the immigrants from Trentino on U.S.A. trails ; Creator: Bolognani, Bonifacio, 1915- ; Language: English ; Subject ... A Courageous People from the Dolomites Cover for "A Courageous People from the Dolomites: The Immigrants from Trentino on U.S.A.. Empty Star. No reviews ... A Courageous People from the Dolomites Bibliographic information. Title, A Courageous People from the Dolomites: The Immigrants from Trentino on U.S.A. Trails. Author, Bonifacio Bolognani. Edition, 3. A Courageous People From The Dolomites The Immigrants ... Page 1. A Courageous People From The Dolomites The. Immigrants From Trentino On Usa Trails. A Courageous People From the Dolomites now online Nov 6, 2013 — States. It discusses why our ancestors left Trentino, how they traveled, where they went, their lives in their new country, working in the mines ... A Courageous People from the Dolomites A Courageous People from the Dolomites: The Immigrants from Trentino on U.S.A. Trails. Author, Bonifacio Bolognani. Publisher, Autonomous Province(IS), 1981. A Courageous People from the Dolomites, by Bonifacio ... A Courageous People from the Dolomites, by Bonifacio Bolognani. Pbk, 1984 ... Immigrants from Trentino to USA. Subject. Catholicism, Italian immigration.