

Download free Military geosciences and desert warfare past lessons and modern challenges advances in military geosciences (2023)

eighteen chapters address the complex yet critical aspects of the role of geosciences in military undertakings the chapters cover a wide range of expertise drawn from the broad area of geology geomorphology geography geophysics engineering geology hydrogeology cartography environmental science remote sensing soil science geoinformatics and related disciplines that reflect the multidisciplinary nature of military geology this book is a collection of papers presented at the 11th international conference of military geoscience that was held in 2015 the conference included discussion on a diverse range of geosciences including military history military geology teaching geology from a military prospective geological influence on the battlefield and environmental and cultural issues related to management of military lands geology and geography have played a significant role in military history from providing the stone for primitive tools and weapons to the utilization of terrain in offensive and defensive strategies specific to this volume deserts comprise nearly a third of the earth s surface and have been the site of numerous battles where the dust heat and a lack of food and water have provided challenges to military leaders and warriors this book examines the role of deserts in past and modern warfare the problems and challenges in managing military lands in desert regions and how desert environmental conditions can impact military equipment and personnel this proceedings volume should be of interest to scholars professionals and those interested in military history warfare geology geography cultural resources general science and military operations this book is a collection of papers presented at the 9th international conference of military geoscience that was held in 2011 the conference included discussion on a diverse range of geosciences including military history military geology teaching geology from a military prospective geological influence on the battlefield and environmental and cultural issues related to management of military lands geology and geography have played a significant role in military history from providing the stone for primitive tools and weapons to the utilization of terrain in offensive and defensive strategies specific to this volume deserts comprise nearly a third of the earth s surface and have been the site of numerous battles where the dust heat and a lack of food and water have provided challenges to military leaders and warriors this book examines the role of deserts in past and modern warfare the problems and challenges in managing military lands in desert regions and how desert environmental conditions can impact military equipment and personnel this proceedings volume should be of interest to scholars professionals and those interested in military history warfare geology geography cultural resources general science and military operations this volume presents a selection of papers from the 13th international conference on military geosciences icmg held 24 28 june 2019 in padua italy it covers a wide range of subjects within the confines of military geoscience written by scientists

with a variety of different backgrounds from many countries throughout the world many of the papers focus on subjects related to italy and world war i but additional subject areas include international perspectives in the military geosciences international security geospatial intelligence and remote sensing subterranean and underground warfare analyses of historical battlefields and fortifications and military archaeology the book will be of interest to academics e g military historians military archaeologists military geographers and geologists applied geoscientists e g engineering geologists and geologists working in other areas of applied geology professional geoscientists and those with a general interest in military geoscience and history this book is a collection of papers presented at the 11th international conference of military geoscience that was held in 2015 the conference included discussion on a diverse range of geosciences including military history military geology teaching geology from a military prospective geological influence on the battlefield and environmental and cultural issues related to management of military lands geology and geography have played a significant role in military history from providing the stone for primitive tools and weapons to the utilization of terrain in offensive and defensive strategies specific to this volume deserts comprise nearly a third of the earth s surface and have been the site of numerous battles where the dust heat and a lack of food and water have provided challenges to military leaders and warriors this book examines the role of deserts in past and modern warfare the problems and challenges in managing military lands in desert regions and how desert environmental conditions can impact military equipment and personnel this proceedings volume should be of interest to scholars professionals and those interested in military history warfare geology geography cultural resources general science and military operations contemporary military geosciences in south africa presents the reader with chapters celebrating the scope reach and impact of themes researched by military geoscientists the first topics under investigation ranges from battlefield archaeology and battlefield tourism to military environmental management and the development of a unique south african spatial decision support system for military integrated environmental management this is followed by an in depth look at contemporary maritime factors at play in south africa the book is concluded by an analysis of the issues surrounding military mobility software and terrain negotiability as well as a comprehensive examination of how geographic factors influence the distribution of natural radionuclides in a military area a selection of papers on a broad range of military topics ranging from the strategic perspective through analyses of historical battles at the operational and tactical levels to the use of advanced technologies applied to present day military problems this eight chapter volume african military geosciences military history and the physical environment is a tour de force covering nearly 500 years of african military geosciences it is a truly global book that reveals keen insights into regional national and international military forces activities centered in africa and how the understanding of geosciences plays important roles it is written for the specialist but also attractive to the general military buff well referenced and illustrated with figures from primary sources historical catalogues and compendia the publication explores the e age of sail e harbour defenses the trafficability of desert environments and marshes as well as climate controls on sailing or land battles there is even insight into an elite artillery unit staffed by women during second world war essentially covering the whole gamut ultimately the reader explores a nearly 500 year journey around the african continent and beyond drawing from military geography s spatial roots its embrace of dynamic

systems and integration of human and biophysical environments this book helps in understanding the value of analyzing patterns processes and systems and cross scale and multi disciplinary ways of acting in a complex world while making the case for a resurgence of strategic and military geography in australia here leading experts demonstrate that geography retains its relevance in clarifying the scale and dynamics of defense activities in assessments of the international regional national and site impacts of changes in physical cyber and human geographies the cases presented show australia contributing to a growing strategic and military geography this volume discusses how the german armed forces made effective use of military geologists to assist their fortification of the channel islands after their capture from the british in 1940 the book presents a unique case history of german geologist expertise applied to british terrain intended to make the islands into an impregnable fortress that postwar would remain a permanent outpost of the german state in doing so the book explains why the channel islands constitute a classic location for british geology how german armed forces made far greater military use of geologists than either their british or american opponents and the legacy of fortifications that may conveniently be seen by tourists today fortifications bypassed by allied forces that liberated nearby normandy after d day in june 1944 and surrendered intact at the end of the war in europe in may 1945 this book discusses the relationship between geology and fighting during the american civil war terrain was largely determined by the underlying rocks and how the rocks weathered this book explores the difference in rock type between multiple battlegrounds and how these rocks influenced the combat tactics and strategies employed by the soldiers and their commanding officers at different scales contemporary military geosciences in south africa presents the reader with chapters celebrating the scope reach and impact of themes researched by military geoscientists the first topics under investigation ranges from battlefield archaeology and battlefield tourism to military environmental management and the development of a unique south african spatial decision support system for military integrated environmental management this is followed by an in depth look at contemporary maritime factors at play in south africa the book is concluded by an analysis of the issues surrounding military mobility software and terrain negotiability as well as a comprehensive examination of how geographic factors influence the distribution of natural radionuclides in a military area contemporary military geosciences in south africa presents the reader with chapters celebrating the scope reach and impact of themes researched by military geoscientists the first topics under investigation ranges from battlefield archaeology and battlefield tourism to military environmental management and the development of a unique south african spatial decision support system for military integrated environmental management this is followed by an in depth look at contemporary maritime factors at play in south africa the book is concluded by an analysis of the issues surrounding military mobility software and terrain negotiability as well as a comprehensive examination of how geographic factors influence the distribution of natural radionuclides in a military area

ÿthis eight chapter volume african military geosciences military history and the physical environment is a tour de force covering nearly 500 years of african military geosciences it is a truly global book that reveals keen insights into regional national and international military forces activities centered in africa and how the understanding of geosciences plays important roles it is written for the specialist but also attractive to the general military buff well referenced and illustrated with figures from primary sources historical catalogues and

compendia the publication further explores the age of sail harbour defenses the trafficability of desert environments and marshes as well as climate controls on sailing or land battles there is even insight into an elite artillery unit staffed by women during second world war essentially covering the whole gamut ultimately the reader explores a nearly 500 year journey around the african continent and beyond terrain has a profound effect upon the strategy and tactics of any military engagement and has consequently played an important role in determining history in addition the landscapes of battle and the geology which underlies them has helped shape the cultural iconography of battle certainly within the 20th century in the last few years this has become a fertile topic of scientific and historical exploration and has given rise to a number of conferences and books the current volume stems from the international terrain in military history conference held in association with the imperial war museum london and the royal engineers museum chatham at the university of greenwich in january 2000 this conference brought together historians geologists military enthusiasts and terrain analysts from military academic and amateur backgrounds with the aim of exploring the application of modern tools of landscape visualisation to understanding historical battlefields this theme was the subject of a leverhulme trust grant f 345 e awarded to the university of greenwich and administered by us in 1998 which aimed to use the tools of modern landscape visualisation in understanding the influence of terrain in the first world war this volume forms part of the output from this grant and is part of our wider exploration of the role of terrain in military history many individuals contributed to the organisation of the original conference and to the production of this volume military geographies is about how local space place environment and landscape are shaped by military presence and about how wider geographies are touched by militarism a book about how local space place environment and landscape are shaped by military presence and about how wider geographies are touched by militarism sets a new agenda for the study of military geography with its critical analysis of the ways in which military control over space is legitimized explores the ways in which militarism and military activities control development the use of space and our understanding of place focuses on military lands establishments and personnel in contemporary peacetime settings uses examples from europe north america and australasia draws on original research into the mechanisms by which the british government manages the defence estate illustrated with maps plans and other figures the aim of this book is to demonstrate how environmental factors have caused an evolution in the landscape of national security since the end of the cold war through relevant case studies the scope of the problem on the national security landscape due to environmental stressors is illuminated examined and synthesized with climate related data human variables such as governance gdp and vulnerability are taken into account and are compared against environmental factors to more accurately determine the causative agents of regional conflicts which threaten national security these case studies comprise the majority of the text and they show how individual conflicts are uniquely influenced by environmental stress with variations from situation to situation this book will be of interest to government and military professionals and may serve as a resource for college courses in the areas of military geography international affairs and sustainability studies surveillance is a key notion for understanding power and control in the modern world but it has been curiously neglected by historians of science and technology using the overarching concept of the surveillance imperative this collection of essays offers a new window on the evolution of the environmental sciences during

and after the cold war this book complements the geological society s special publication 362 military aspects of hydrogeology generated under the auspices of the society s history of geology and engineering groups it contains papers from authors in the uk usa germany and austria substantial papers describe some innovative engineering activities influenced by geology undertaken by the armed forces of the opposing nations in world war i these activities were reactivated and developed in world war ii examples include trenching from world war i tunnelling and quarrying from both wars and the use of geologists to aid german coastal fortification and allied aerial photographic interpretation in world war ii the extensive introduction and other chapters reveal that military geology has a longer history these chapters relate to pre twentieth century coastal fortification in the uk and the usa conflict in the american civil war long term going assessments for german forces tunnel repair after wartime route denial in hong kong and tunnel detection after recent insurgent improvisation in iraq the publication provides the first comprehensive text that reflects on a century of the development of geography as an academic discipline at south african universities the book showcases a broad and textured review of south africa s geography departments their staff members their times and the different geographies they engaged in the book lays the foundation from which more expansive individual departmental histories can be written in the future the purpose of this manual is to assemble in one volume an overview of coastal geology and a discussion of data sources and study methods applicable to coastal geological field studies the intended audience is us army corps of engineer engineers geologists and field technicians p 1 1 geoscience data and collections such as rock and sediment cores geophysical data engineering records and fossils are necessary for industries to discover and develop domestic natural resources to fulfill the nation s energy and mineral requirements and to improve the prediction of immediate and long term hazards such as land slides volcanic eruptions and global climate change while the nation has assembled a wealth of geoscience data and collections their utility remains incompletely tapped many could act as invaluable resources in the future but immediate action is needed if they are to remain available housing of and access to geoscience data and collections have become critical issues for industry federal and state agencies museums and universities many resources are in imminent danger of being lost through mismanagement neglect or disposal a striking 46 percent of the state geological surveys polled by the committee reported that there is no space available or they have refused to accept new material in order to address these challenges geoscience data and collections offers a comprehensive strategy for managing geoscience data and collections in the united states the encyclopedia of applied geology is an international compendium of engineering geology topics prepared by experts from many countries the volume contains more than eighty main entries in alphabetical order dealing with hydrology rock structure monitoring and soil mechanics in addition to engineering geology special topics focus on earth science information and sources electrokinetics forensic geology geocryology nuclear plant siting photogrammetry tunnels and tunnelling urban geomorphology and well data systems this volume gathers 19 papers first presented at the 5th international symposium of the ica commission on the history of cartography which took place at the university of ghent belgium on 2 5 december 2014 the overall conference theme was cartography in times of war and peace but preference was given to papers dealing with the military cartography of the first world war 1914 1918 the papers are classified by period and regional sub theme i e military cartography from the 18th to the 20th century ww i

cartography in belgium central europe etc includes publications previously listed in the supplements to the index of selected publications of the rand corporation oct 1962 feb 1963

Military Geosciences in the Twenty-First Century

2014-08-22

eighteen chapters address the complex yet critical aspects of the role of geosciences in military undertakings the chapters cover a wide range of expertise drawn from the broad area of geology geomorphology geography geophysics engineering geology hydrogeology cartography environmental science remote sensing soil science geoinformatics and related disciplines that reflect the multidisciplinary nature of military geology

Military Geoscience

2020-01-28

this book is a collection of papers presented at the 11th international conference of military geoscience that was held in 2015 the conference included discussion on a diverse range of geosciences including military history military geology teaching geology from a military prospective geological influence on the battlefield and environmental and cultural issues related to management of military lands geology and geography have played a significant role in military history from providing the stone for primitive tools and weapons to the utilization of terrain in offensive and defensive strategies specific to this volume deserts comprise nearly a third of the earth s surface and have been the site of numerous battles where the dust heat and a lack of food and water have provided challenges to military leaders and warriors this book examines the role of deserts in past and modern warfare the problems and challenges in managing military lands in desert regions and how desert environmental conditions can impact military equipment and personnel this proceedings volume should be of interest to scholars professionals and those interested in military history warfare geology geography cultural resources general science and military operations

Military Geosciences and Desert Warfare

2016-02-10

this book is a collection of papers presented at the 9th international conference of military geoscience that was held in 2011 the conference included discussion on a diverse range of geosciences including military history military geology teaching geology from a military prospective geological influence on the battlefield and environmental and cultural issues related to management of military lands geology and geography have played a significant role in military history from providing the stone for primitive

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Military Geoscience: A Multifaceted Approach to the Study of Warfare

2022-02-23

this volume presents a selection of papers from the 13th international conference on military geosciences icmg held 24 28 june 2019 in padua italy it covers a wide range of subjects within the confines of military geoscience written by scientists with a variety of different backgrounds from many countries throughout the world many of the papers focus on subjects related to italy and world war i but additional subject areas include international perspectives in the military geosciences international security geospatial intelligence and remote sensing subterranean and underground warfare analyses of historical battlefields and fortifications and military archaeology the book will be of interest to academics e g military historians military archaeologists military geographers and geologists applied geoscientists e g engineering geologists and geologists working in other areas of applied geology professional geoscientists and those with a general interest in military geoscience and history

Military Geoscience

2020

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military equipment and personnel this proceedings volume should be of interest to scholars professionals and those interested in military history warfare geology geography cultural resources general science and military operations

Contemporary Military Geosciences in South Africa

2019-03-20

contemporary military geosciences in south africa presents the reader with chapters celebrating the scope reach and impact of themes researched by military geoscientists the first topics under investigation ranges from battlefield archaeology and battlefield tourism to military environmental management and the development of a unique south african spatial decision support system for military integrated environmental management this is followed by an in depth look at contemporary maritime factors at play in south africa the book is concluded by an analysis of the issues surrounding military mobility software and terrain negotiability as well as a comprehensive examination of how geographic factors influence the distribution of natural radionuclides in a military area

Studies in Military Geography and Geology

2007-11-04

a selection of papers on a broad range of military topics ranging from the strategic perspective through analyses of historical battles at the operational and tactical levels to the use of advanced technologies applied to present day military problems

African Military Geosciences

2018-12-19

this eight chapter volume african military geosciences military history and the physical environment is a tour de force covering nearly 500 years of african military geosciences it is a truly global book that reveals keen insights into regional national and international military forces activities centered in africa and how the understanding of geosciences plays important roles it is written for the specialist but also attractive to the general military buff well referenced and illustrated with figures from primary sources historical catalogues and compendia the publication explores the e age of sail e harbour defenses the trafficability of desert environments and marshes as well as climate controls on sailing or land battles there is even insight into an elite artillery

unit staffed by women during second world war essentially covering the whole gamut ultimately the reader explores a nearly 500 year journey around the african continent and beyond

Australian Contributions to Strategic and Military Geography

2018-03-08

drawing from military geography's spatial roots its embrace of dynamic systems and integration of human and biophysical environments this book helps in understanding the value of analyzing patterns processes and systems and cross scale and multi disciplinary ways of acting in a complex world while making the case for a resurgence of strategic and military geography in australia here leading experts demonstrate that geography retains its relevance in clarifying the scale and dynamics of defense activities in assessments of the international regional national and site impacts of changes in physical cyber and human geographies the cases presented show australia contributing to a growing strategic and military geography

German Military Geology and Fortification of the British Channel Islands During World War II

2020-09-17

this volume discusses how the german armed forces made effective use of military geologists to assist their fortification of the channel islands after their capture from the british in 1940 the book presents a unique case history of german geologist expertise applied to british terrain intended to make the islands into an impregnable fortress that postwar would remain a permanent outpost of the german state in doing so the book explains why the channel islands constitute a classic location for british geology how german armed forces made far greater military use of geologists than either their british or american opponents and the legacy of fortifications that may conveniently be seen by tourists today fortifications bypassed by allied forces that liberated nearby normandy after d day in june 1944 and surrendered intact at the end of the war in europe in may 1945

Rocks and Rifles

2018-11-14

this book discusses the relationship between geology and fighting during the american civil war terrain was largely determined by

the underlying rocks and how the rocks weathered this book explores the difference in rock type between multiple battlegrounds and how these rocks influenced the combat tactics and strategies employed by the soldiers and their commanding officers at different scales

Contemporary Military Geosciences in South Africa

2019-03-20

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Contemporary Military Geosciences in South Africa

2019-03-31

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International handbook military geography. 2. Proceedings of the 8th

International Conference on Military Geosciences : Vienna, Austria, June 15 - 19, 2009

2011

ÿthis eight chapter volume african military geosciences military history and the physical environment is a tour de force covering nearly 500 years of african military geosciences it is a truly global book that reveals keen insights into regional national and international military forces activities centered in africa and how the understanding of geosciences plays important roles it is written for the specialist but also attractive to the general military buff well referenced and illustrated with figures from primary sources historical catalogues and compendia the publication further explores the age of sail harbour defenses the trafficability of desert environments and marshes as well as climate controls on sailing or land battles there is even insight into an elite artillery unit staffed by women during second world war essentially covering the whole gamut ultimately the reader explores a nearly 500 year journey around the african continent and beyond

African Military Geoscience

2018-12-18

terrain has a profound effect upon the strategy and tactics of any military engagement and has consequently played an important role in determining history in addition the landscapes of battle and the geology which underlies them has helped shape the cultural iconography of battle certainly within the 20th century in the last few years this has become a fertile topic of scientific and historical exploration and has given rise to a number of conferences and books the current volume stems from the international terrain in military history conference held in association with the imperial war museum london and the royal engineers museum chatham at the university of greenwich in january 2000 this conference brought together historians geologists military enthusiasts and terrain analysts from military academic and amateur backgrounds with the aim of exploring the application of modern tools of landscape visualisation to understanding historical battlefields this theme was the subject of a leverhulme trust grant f 345 e awarded to the university of greenwich and administered by us in 1998 which aimed to use the tools of modern landscape visualisation in understanding the influence of terrain in the first world war this volume forms part of the output from this grant and is part of our wider exploration of the role of terrain in military history many individuals contributed to the organisation of the original conference and to the production of this volume

Fields of Battle

2013-03-14

military geographies is about how local space place environment and landscape are shaped by military presence and about how wider geographies are touched by militarism a book about how local space place environment and landscape are shaped by military presence and about how wider geographies are touched by militarism sets a new agenda for the study of military geography with its critical analysis of the ways in which military control over space is legitimized explores the ways in which militarism and military activities control development the use of space and our understanding of place focuses on military lands establishments and personnel in contemporary peacetime settings uses examples from europe north america and australasia draws on original research into the mechanisms by which the british government manages the defence estate illustrated with maps plans and other figures

Military Geographies

2011-07-15

the aim of this book is to demonstrate how environmental factors have caused an evolution in the landscape of national security since the end of the cold war through relevant case studies the scope of the problem on the national security landscape due to environmental stressors is illuminated examined and synthesized with climate related data human variables such as governance gdp and vulnerability are taken into account and are compared against environmental factors to more accurately determine the causative agents of regional conflicts which threaten national security these case studies comprise the majority of the text and they show how individual conflicts are uniquely influenced by environmental stress with variations from situation to situation this book will be of interest to government and military professionals and may serve as a resource for college courses in the areas of military geography international affairs and sustainability studies

The Environment-Conflict Nexus

2018-07-15

surveillance is a key notion for understanding power and control in the modern world but it has been curiously neglected by historians of science and technology using the overarching concept of the surveillance imperative this collection of essays offers

a new window on the evolution of the environmental sciences during and after the cold war

The Surveillance Imperative

2014-09-17

this book complements the geological society s special publication 362 military aspects of hydrogeology generated under the auspices of the society s history of geology and engineering groups it contains papers from authors in the uk usa germany and austria substantial papers describe some innovative engineering activities influenced by geology undertaken by the armed forces of the opposing nations in world war i these activities were reactivated and developed in world war ii examples include trenching from world war i tunnelling and quarrying from both wars and the use of geologists to aid german coastal fortification and allied aerial photographic interpretation in world war ii the extensive introduction and other chapters reveal that military geology has a longer history these chapters relate to pre twentieth century coastal fortification in the uk and the usa conflict in the american civil war long term going assessments for german forces tunnel repair after wartime route denial in hong kong and tunnel detection after recent insurgent improvisation in iraq

Military Aspects of Geology

2019-01-31

the publication provides the first comprehensive text that reflects on a century of the development of geography as an academic discipline at south african universities the book showcases a broad and textured review of south africa s geography departments their staff members their times and the different geographies they engaged in the book lays the foundation from which more expansive individual departmental histories can be written in the future

The Origin and Growth of Geography as a discipline at South Africa Universities

2016-09-20

the purpose of this manual is to assemble in one volume an overview of coastal geology and a discussion of data sources and study methods applicable to coastal geological field studies the intended audience is us army corps of engineer engineers

geologists and field technicians p 1 1

Coastal Geology

1994

geoscience data and collections such as rock and sediment cores geophysical data engineering records and fossils are necessary for industries to discover and develop domestic natural resources to fulfill the nation's energy and mineral requirements and to improve the prediction of immediate and long term hazards such as land slides volcanic eruptions and global climate change while the nation has assembled a wealth of geoscience data and collections their utility remains incompletely tapped many could act as invaluable resources in the future but immediate action is needed if they are to remain available housing of and access to geoscience data and collections have become critical issues for industry federal and state agencies museums and universities many resources are in imminent danger of being lost through mismanagement neglect or disposal a striking 46 percent of the state geological surveys polled by the committee reported that there is no space available or they have refused to accept new material in order to address these challenges geoscience data and collections offers a comprehensive strategy for managing geoscience data and collections in the united states

Geoscience Data and Collections

2002-09-20

the encyclopedia of applied geology is an international compendium of engineering geology topics prepared by experts from many countries the volume contains more than eighty main entries in alphabetical order dealing with hydrology rock structure monitoring and soil mechanics in addition to engineering geology special topics focus on earth science information and sources electrokinetics forensic geology geocryology nuclear plant siting photogrammetry tunnels and tunnelling urban geomorphology and well data systems

The Encyclopedia of Applied Geology

1984-07-31

this volume gathers 19 papers first presented at the 5th international symposium of the ica commission on the history of

cartography which took place at the university of ghent belgium on 2 5 december 2014 the overall conference theme was cartography in times of war and peace but preference was given to papers dealing with the military cartography of the first world war 1914 1918 the papers are classified by period and regional sub theme i e military cartography from the 18th to the 20th century ww i cartography in belgium central europe etc

History of Military Cartography

2018-03-30

includes publications previously listed in the supplements to the index of selected publications of the rand corporation oct 1962
feb 1963

Journal of Geoscience Education

2007

Investigations in Environmental Geoscience

1975

Directory of Geoscience Departments in the Colleges and Universities of the United States and Canada

1960

IEEE International Geoscience and Remote Sensing Symposium Proceedings

2003

Selected Rand Abstracts

1974

Digest, 1982 International Geoscience and Remote Sensing Symposium (IGARSS '82)

1982

Geoscience Canada

2000

Directory of Geoscience Departments

2008

Geoscience Abstracts

1966

Directory of Geoscience Departments, North America

2007

International Directory of Geoscience Organizations

1996

International Role of U.S. Geoscience

1987

Geoscience Journal

2001

The Geosciences in Canada, 1980

1983

Directory of Geoscience Departments, United States and Canada

2008

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