

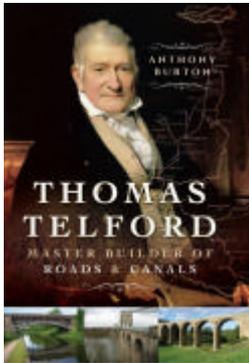
1st Year Civil and Environmental Engineers Book Reading 2015-2016 Session



The Kelpies: Making the World's Largest Equine Sculptures Hardcover by Andy Scott

The book has changed my overall perspective of all types of structures, from bridges and motorways, to buildings and monuments. I used to walk past these structures and possibly take a second glance, but after beginning this course and reading this book, I find myself looking at more and more examples of engineering. **(Iain Bradley)**

I felt that the book further enhanced my understanding of engineering and what is involved with huge projects such as The Kelpies. It made me more aware of how different professions have to come together in order to produce a successful project, this emphasises the importance of communication in a working environment.
(Glodi Kalukenda)



Thomas Telford by Anthony Burton

This book contains surely the most inspiring story of civil engineering for any young Scot who is considering the discipline for a future career. A large part of Scotland owes its wealth to Telford and the communications he lay down during his time, which formed the bases for the industrial revolution in Scotland. **(John Allan)**

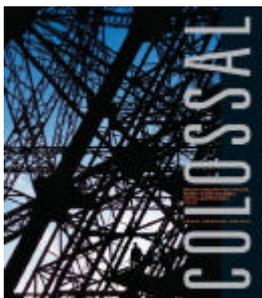
There was a good balanced between information about the man himself and the work he carried out. I found it helpful to learn about the history of the field of civil engineering. I was also greatly inspired by Telford's self-taught success. Overall, I enjoyed reading this book and feel that it gave me great insight into what it takes to be a civil engineer.
(Mia McGraith Burns)



The Transformation of St Pancras Station by Alastair Lansley

The book really showed me that originality, open-mindedness and the ability to apply new and old engineering methods together are really important to creating a masterpiece such as St Pancras Station. The book shows just how difficult the challenges that could be presented to a Civil Engineer, making me more keen to pursue a career within this field. **(Felicia Wing Yan Ma)**

Through reading about the history, significance and intelligence behind the station, I have been able to expand my knowledge on civil engineering. I also feel like the book has inspired me further and has reaffirmed my decision to study civil engineer. Reading about the station being transformed has encouraged me to one day visit the station and experience its grandeur in person. **(Nicola Bull)**

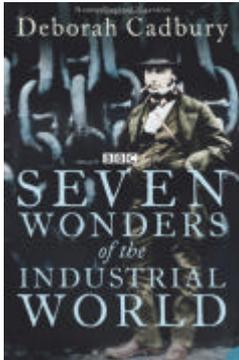


Colossal: Engineering the Suez Canal, Statue of Liberty, Eiffel Tower and Panama Canal by Darcy Grimaldo Grigsby

Overall the book has definitely broadened my knowledge of engineering as well as motivated me to explore it on my own. It has helped me see why I want to become a Civil Engineer in the future and the rewards that come with hard work and dedication. I was able to get an insight into the ways these great engineers worked and the problems they faced, as well as their clever ways of dealing with them.
(Dominik Betner)

'Colossal' has made me realise how interesting civil engineering is and affirmed that it is the right course for me. However, it has also shown me that it isn't easy to be an engineer. Engineers face many challenges but what makes a good engineer is the ability to overcome these problems. 'Colossal' shows great things can come from civil engineering, which makes me want to experience this course even more.
(Finlay Gibson)

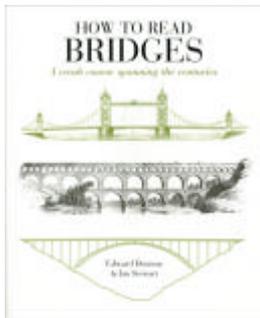
1st Year Civil and Environmental Engineers Book Reading 2014-2015 Session



Seven Wonders of the Industrial World by Deborah Cadbury Harper Perennial; New edition (5 July 2004) ISBN-10: 0007163053

Seven Wonders of the Industrial World was a hugely encouraging read for me. I think from this I've realised that becoming successful as an engineer is not just about having the skills behind me, but about having knowledge of the history engrained in my mind to inspire and motivate me. Discovering everything about such iconic engineering figures, from their fiery passion, to the troublesome times they had to face to their untimely deaths has taken me on a journey and widely broadened my knowledge about the wild history of engineering, which I'm positive I can take in to my future studies and career. **(Emma Haw)**

Throughout this book I found that I was constantly feeling inspired. I was given an insight into the history of civil engineering and was able to develop a further understanding of how these great people achieved super human feats. All of the engineers described in this book overcame many obstacles such as; political pressure, negative press, financial problems and all overcoming Mother Nature. They changed the world, whether it is by inspiring a nation, saving many thousands of lives or by altering the landscape for the rest of time. I hope that I too one day can take part in project that has such a massive impact on the world around me. **(Christopher Burns)**

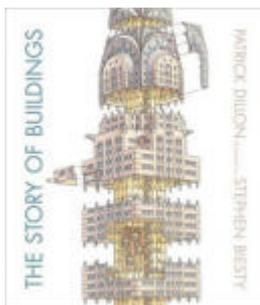


How to Read Bridges: A Crash Course Spanning the Centuries by Edward Denison & Ian Stewart

Herbert Press Ltd (16 Feb 2012) ISBN-10: 1408171767

In conclusion this book has reinforced my desire to become a civil engineer. It has gave me some perspective on the things to consider when designing and constructing a bridge, whether it be the materials, the bridge type, the cost or the aesthetics of the bridge. It has also given me the inspiration to not just be a civil engineer but go that extra step and to innovate the world with new designs and structures, just like the engineering greats of the past. **(Michael Cunningham)**

I thoroughly enjoyed this book and it has definitely sparked my interest for bridges. I think bridges are some of the most exciting structures engineers can work on and it is certainly one of the many reasons why I've chosen to pursue a career in engineering. This book greatly details and explores all types of materials, techniques and bridges used throughout the world. I would highly recommend this book to others on my course, even family members. **(Amy Harris)**



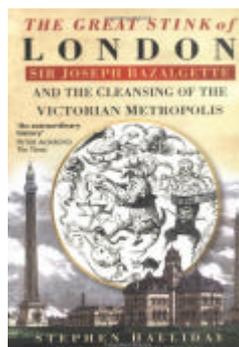
The Story of Buildings: From the Pyramids to the Sydney Opera House and Beyond

Hardcover by Patrick Dillon (Author), Stephen Biesty (Illustrator)

Candlewick Press (MA) (11 Mar 2014) ISBN-10: 0763669903

The book was very enjoyable to read, as it has taught me a lot about the history and some of the techniques that were involved in buildings, the author explains theories in a basic manner which makes the book easier to understand, this helps the reader see what the book is about. The book has increased my interest in Civil Engineering even more and also made me consider a career that involves building buildings. The main thing that I loved about the book, was how it told the story and ambitions of the people who decided to build them, this helps the reader appreciate buildings more and understand that buildings are not just stones or other material, that were put together. **(Hassan Al Sabbagh)**

I am of the opinion that reading this book was extremely helpful for me. I was really fascinated by all of the stories about the buildings and to be honest, it was difficult to me to select only a few structures that impressed me the most. In addition, all of the stories were described in an engrossing way for the reader, combined with excellent illustrations which clearly visualize what was described. Moreover, it made me curious to read other books related to civil engineering. So, what have I learned about civil engineering from the book? First of all, it confirmed my choice that the course I chose to study is right for me. **(Stanislav Dimitrov)**



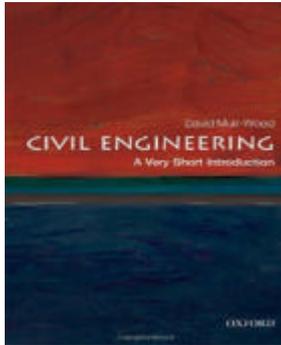
The Great Stink of London: Sir Joseph Bazalgette and the Cleansing of the Victorian Metropolis

By Stephen Halliday

The History Press; New Ed edition (15 Feb 2001) ISBN-10: 0750925809

This book has made me more aware of the role of a Civil Engineer in society. I have also learnt that in order to make a difference in life, you have to strive for it. I now have a better understanding of the types of work that a Civil Engineer carries out to solve a problem and the enormous challenges that comes in the way. I really liked the book and it has motivated me to follow the footsteps of great Engineers to meet the challenges of the future. **(Asim Bukhari)**

1st Year Civil and Environmental Engineers Book Reading 2013-2014 Session



Civil Engineering: A Very Short Introduction By David Muir Wood

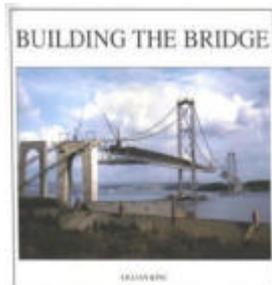
This book is enlightening and enjoyable. I believe it's the best book that I have ever read. It contains everything that a 1st year student studying civil engineering needs to know, from the history of engineering, well known master builders, materials and structures.

(Antonis Zaopoda)

A brilliant eye opener to what civil engineering has to offer.

A must read. Truly inspiring and guaranteed to leave an enthusiastic engineer in awe.

(Kaiser Ashfaq)



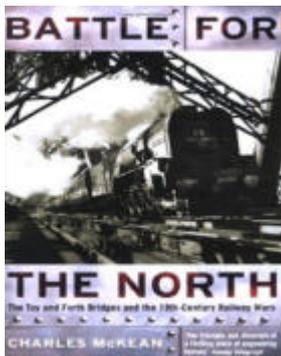
Building the Bridge By Lillian King

The illustrations make you feel like you're standing next to the spider men 500ft above the Forth. Lillian King has produced a well-researched text that takes you on a journey through the construction of one of Scotland's iconic structures. I couldn't recommend this book enough to students and enthusiasts alike.

(Kevin Helton)

Building The Bridge by Lillian King is a book I found truly inspirational, it made me aware of the process a project goes through in the civil engineering industry. King made me realize how important it is to take this job seriously because a small error in your calculations or a careless mistake at the construction site can cause many lives.

(Sajjad Khan)



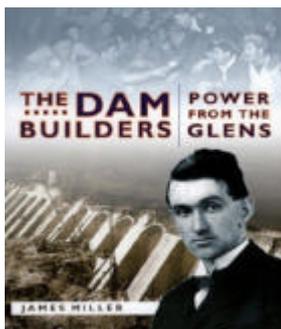
Battle for the North: The Tay and Forth Bridges and the 19th-Century Railway Wars By Charles McKean

This book was very informative of the methods used in constructing the bridges and railways, and it is inspirational as no matter what problems these engineers faced they kept going.

(Natalie Mckenna Moore)

I genuinely enjoyed the book "The Battle for the North" by Charles McKean and it made me think a lot about the process of construction and made me really eager to make sure that I do not make the same mistakes as some of the Victorian engineers did.

(Ruth Taylor)



The Dam Builders: Power from the Glens By Jim Miller

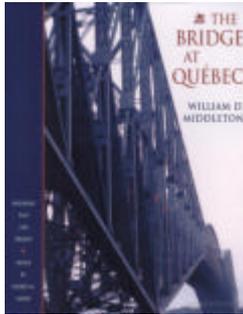
"The Dam Builders: Power from the Glens" shows the controversy a project can cause, making you ask questions such as; is it worth ruining the beautiful scenery for the benefits the dam would bring? Will the investment in time and money pay off? My answer to both these questions eventually became "Yes" but there were many different points to consider.

(Caleigh Bradbury)

I definitely enjoyed reading it as it has only made me more interested in a career in engineering. I feel like I have somehow been able to share with them on a personal level the troubles and good times they had when building the dams, and hope that I will have stories to tell similar if not better than theirs.

(Michael Kerr)

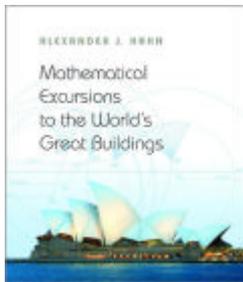
1st Year Civil Engineers / Architectural Engineers Book Reading 2012-2013 Session



The Bridge at Quebec (Railroads Past & Present) By William D. Middleton

In all honesty I cannot say that I have read many books about bridge disasters but I can genuinely say that "The Bridge of Quebec" by William D. Middleton has introduced to me a completely new genre of books which I have enjoyed thoroughly. Not only was the book highly informative on engineering but the way Middleton presented his work made it all the more fascinating to read without being fed up!
(Tien Pei Douglas Chan)

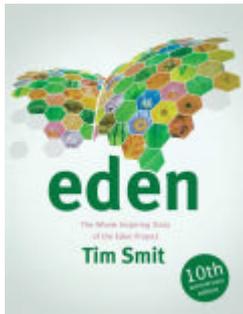
I found The Bridge at Quebec to be a thorough and enjoyable account of the construction of one of the worlds greatest bridges. Reading about how even highly specialised engineers can make mistakes (and how those mistakes can have such dire consequences) has made me think about how much responsibility structural engineers have, and how they can change the lives of the people around them. I feel the book has assured me that structural engineering is the industry where I want to be working in, and has given me a future goal to work towards. (James Kinniburgh)



Mathematical Excursions to the World's Great Buildings By Alexander J. Hahn

Overall, I think this book is an engaging insight into the connection between mathematics and architecture for aspiring engineers. The knowledge I have gained from reading this book will help me in my engineering studies because I now look at structures with a greater awareness of how some of the design features have been constructed as well as the mathematics behind them. I feel inspired that buildings can have an impact on people's beliefs and the way they live their lives as was proven by the Renaissance. (Sara Peat)

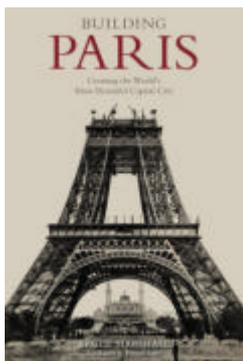
The Mathematical Excursion to the world Great Buildings is a very interesting book which makes you understand how civil engineering is not only a course or a job but it is a way of understanding life. It helps with the understanding of the civil engineering course. I would high recommend it to anyone taking Civil Structural Engineering , Architecture or Mathematics. (Lesley Mercanti)



EDEN anniversary edition By Tim Smit

The book overall was very inspiring as the Eden project was an overwhelming success and it shows that with the right help of highly trained personnel then one man's dream can become a reality and help the community thrive. This book will inspire me to become the best Engineer that I can be and will help me to understand that obstacles can be overcome, just as demonstrated in this book. Finally I also realise how important teamwork is in the workplace. (Gavin Anderson)

In conclusion, I have found this book quite interesting and very inspirational; it has given me knowledge and understanding of the role of civil engineering in society. It also has taught me that teamwork is essential to achieve a huge success, you can't do everything yourself and have to trust in other people. I now know that in order to achieve something as remarkable as the Eden Project I have to be passionate and committed and never give up. (Hubert Bystronski)



Building Paris: Creating the World's Most Beautiful Capital City By Bruce Marshall

The book was really interesting, more than I thought at first. It helped me to understand the way of building this city through the history and the traditional lifestyle and be prepare to visit them. In contrast with other books, Building Paris contains many pictures which give a pleasant tone to the book and motivates the reader to continue. (Tsampika Karanikola)

The book was extremely engaging and exiting as you learn how the Worlds Beautiful Capital City was built. I think the reason I found the book so interesting was through the vivid images and pictures used as it gives the reader a very real concept of how the buildings were constructed and also the exceptional design elements within each building. (Mir Aman Ullah)

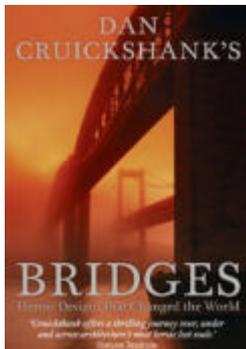
1st Year Civil Engineers / Architectural Engineers Book Reading 2011-2012 Session



The Civil Engineers: The Story of the Institution of Civil Engineers and the People Who Made It **Hugh Ferguson & Mike Chrimes**

Overall, I greatly enjoyed this book as it made me become extremely excited about the time when I will be part of an industry which contributes to society to this level, helps shape the world for the better, and improves the quality of life for people
(Mandy Wardrop)

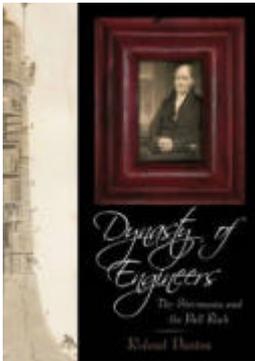
This is an easily accessible book for those seeking to learn more about the Institution of Civil Engineers and the profession as a whole. It also provides an overview of some of history's most famous engineers and their projects. I found it fascinating, informative and would highly recommend it **(Andrew McMillan)**



Dan Cruickshank's Bridges: Heroic Designs that Changed the World **Dan Cruickshank**

Cruickshank leads the reader through exciting journey using interesting stories of bridges from throughout the world and from many different eras. Cruickshank is so passionate that the reader cannot help but feel passionate too. **(Bethany Wilson)**

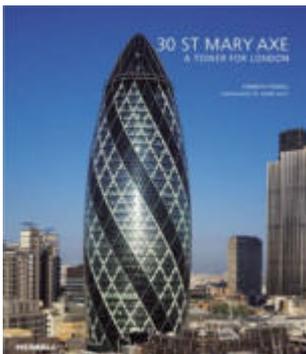
Dan Cruickshank can make the most boring, dull and plain bridge seem like the most exciting and thrilling structure ever to have been built. But most of all, he has introduced me to a refreshed feeling of enthusiasm about engineering and consequently has given me inspiration to read more often. **(Karl Roberts)**



Dynasty of Engineers: The Stevensons and the Bell Rock **Roland Paxton**

Before reading this book I knew some facts about Stevenson but now I know a lot more than what most people should already know about him. I have certainly been inspired by him and it has motivated me to become as good as I can be. **(Duncan Soutter)**

I think anyone who knows anything about Stevenson would respect and honour the achievements which this extraordinary civil engineer accomplished. This book has inspired me further to become a civil engineer after seeing how proud it would be to have been a part of a project which has stood for two generations and is still functioning to its full potential. **(Christopher Callagan)**



30 St Mary Axe: A Tower for London **Kenneth Powell**

Powell does a great job of going through everything you need to know about the project and if you are strongly interested in architecture/structural engineering give this book a go! **(Hazel Easton)**

The book does nothing but praise the construction and rightly so. Powell has shown a perfect insight into the processes which the architects and engineers went through. The book as also inspired me as a future engineer, it has shown me that no matter what the challenges, the right determination and attitude will guide you in order to produce something truly memorable. **(Umar Farooq)**

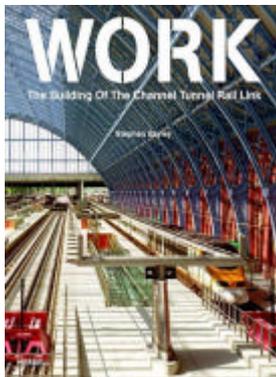
1st Year Civil Engineers / Architectural Engineers Book Reading 2010-2011 Session



Heathrow's Terminal 5: History in the Making (Hardcover) by Sharon Doherty

"I would recommend this book, as it gives a very deep insight of the many aspects of building a mega project such as T5. Such projects involve much more than I would have thought and the skills and practices discussed in this book are useful to all young, aspiring engineers". (Zhenya Glonin)

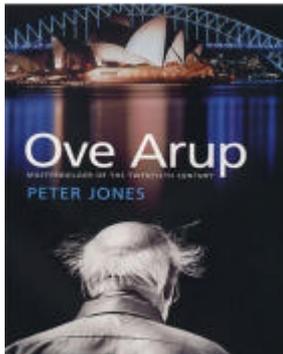
"Very informative about the construction process from initial design right through to the 'handing over of the keys'. Any aspiring Civil Engineer will be very excited by the innovative way in which this modern marvel was built". (Charles Morrison)



Work: The Building of the Channel Tunnel Rail Link [Hardcover] By Stephen Bayley

"With myself being passionate about civil engineering and hence the decision to pursue in the profession in higher education, Bayley's account of the CTRL has given me some insights into reality of the profession. This is very inspirational to me as a fresh undergraduate within the field- it shows the eventual realisation of efforts put in by civil engineers and workers which ultimately serves the public with a clear purpose". (Joe Chun Lam Wong)

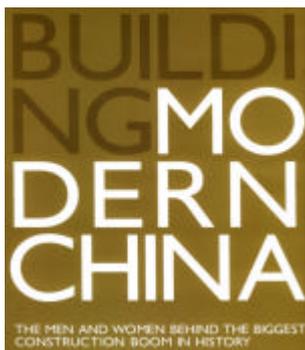
"Taking the above into consideration it is clear that Stephen Bayley has effectively captured the minds of his audience, dazzling them with interesting facts and figures. From the history dating back to the 1800s to the fascinating high speeds now reached by the Eurostar the Channel Tunnel project highlights mind blowing, ground breaking, modern engineering. Overall an exciting read which leads to an very interesting thought, what does the future hold for further developments in rail travel? Could it be even faster? Will there be another link"? (Erin McBride)



Ove Arup: Master Builder of the Twentieth Century [Hardcover] By P Jones

"A fascinating insight into one of the world's top engineers. A complex man and a complex read. A must read for young engineers". (Harry Bannister)

"The book was very interesting and inspirational. I found out alot of information about the civil engineering industry that I did not already know, It gave me an insight into the mind of a great philosopher and civil engineer in one book. The best thing about this book as it has opened my mind to the civil engineering industry as I am now aware that there are a lot more opportunities out there than I first thought". (Christopher Short)

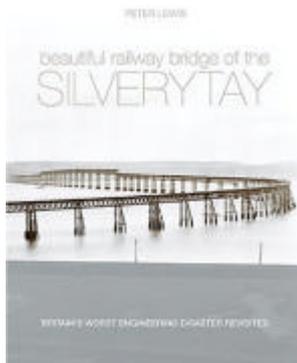


Building Modern China [Paperback] by Rod Sweet (Editor)

"The book was very interesting and I would recommend reading. I thought it gave the reader more detail as it showed an insight into the lives of the construction of China which isn't normally done. If anyone was in doubt of doing civil engineering I would recommend this book to them". (Oliver Coult)

"I found this book inspiring as I wasn't 100% sure that architectural engineering was for me but after reading this book it has confirmed that this is what I want to do. It is an interesting read as it looks at people in the engineering world's experiences before during and after the cultural revolution". (Laura Davis)

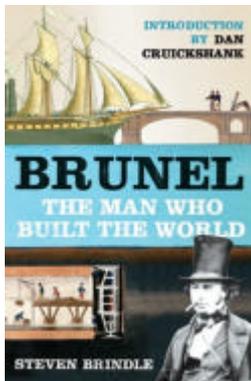
1st Year Civil Engineers / Architectural Engineers Book Reading 2009-2010 Session



Lewis, P (2005) *Beautiful Railway Bridge of the Silvery Tay: Reinvestigating the Tay Bridge Disaster of 1879*, The History Press, Gloucestershire

"I found this book enlightening and enjoyable. A great read, that gives you good background knowledge on the subject and keeps you interested throughout. Peter Lewis clearly knows the subject and makes it accessible to the reader." **(Elspeth Brown)**

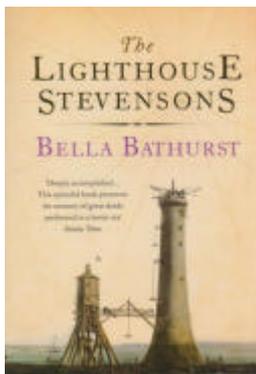
"I thought that the book was very interesting and enjoyed reading it. I feel that I learned quite a lot about the world of Engineering thanks to this book and would recommend it to everyone interested in Civil Engineering. Most of all I enjoyed the section on "Disaster Theories" which discussed possible causes for the bridge collapse." **(Allister Milne)**



Brindle, S (2005) *Brunel, The Man Who Built the World*, Phoenix Press, London

"This book was interesting from start to finish, I just didn't want to put the book down. I thoroughly enjoyed this book and would recommend it to everyone. I would give this book an 8/10." **(Decalan Larcombe)**

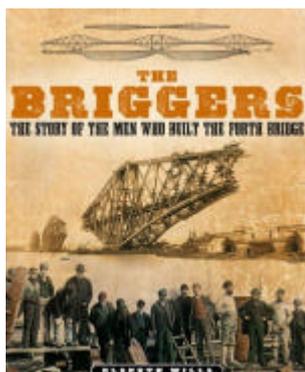
"An excellent read, as interesting as it is inspirational. I would recommend this book to anyone with an interest in engineering or great people." **(Andrew Banks)**



Bathurst, B (2005) *The Lighthouse Stevensons*, Perennial, London

"I thought the book gave a great insight into the work of the Stevensons. It also clearly portrayed how much things have changed. I would recommend this book to anyone studying civil engineering." **(Kris Taylor)**

"The Lighthouse Stevensons is written about an industrious family in a time of social and economic change. It seems their pioneering and hard-working spirit shows the technical break-throughs they made without overly complicated language. An informative and enjoyable read." **(Joanne Banks)**



Wills, E (2009) *The Briggers, The Story of the Men Who Built the Forth Bridge*, Birlinn Ltd, Edinburgh

"I thought this book gave an interesting insight into the way people lived in the past while working on this large construction project. I would strongly recommend this book to anyone who is interested in finding more about the way of life in the past and about the construction of the bridge." **(Craig Donaldson)**

"It was an inspiring story of the life and times of the Briggers building the Forth Rail Bridge." **(Jamie Kane)**