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The Library reopens on 18th October. Please refer to

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For any enquiries and assistance, please contact [libraryservices@nottingham.edu.my](mailto:libraryservices@nottingham.edu.my)

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# NUsearch

initial professional development for civil engineer



Advanced search

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**Initial Professional Development For Civil Engineers**  
Steels, H. Macdonald  
London: Institution of Civil Engineers 2011  
[Available online](#)

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2  **BOOK**  
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Steels, H. Macdonald  
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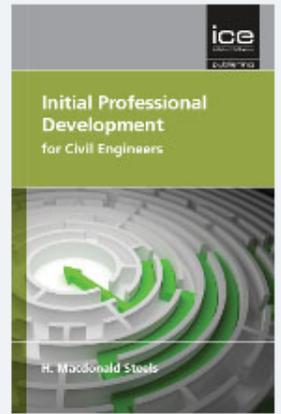
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## Initial Professional Development for Civil Engineers

**Authors:** [H. Macdonald Steels](#)

**Published:** 2011

Initial Professional Development for Engineers provides a core 'foundation' of information, on skills, knowledge and understanding, on which the development of every civil engineer, and their preparation for professional reviews, is based.

The chapters provide guidance for any candidate and their mentors to make sense of the IPD process, providing a valuable insight into how to review their experience and the learning they must take from it. The book offers every review candidate the vision to select the key, important elements of experience to demonstrate their understanding, skills, knowledge and insight.

Initial Professional Development for Engineers

- provides a core understanding of what it means to become a professional engineer
- defines the basic knowledge of the breadth of understanding required
- focuses on the difficult transition from an academic education to the more complex workplace learning through experience
- offers invaluable guidance and advice on further individual research for the reader's own professional development
- guidance on key topics for the mentor, as well as the candidate

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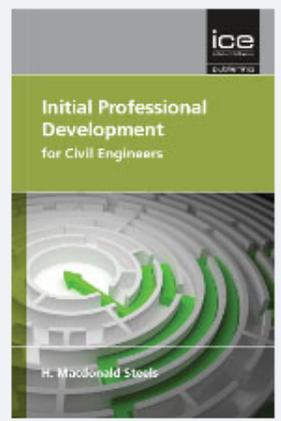
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Initial Professional Development for Engineers is invaluable reading for graduates starting out on their Initial Professional Development, and continuing towards the professional reviews. The book also provides essential reference to the mentors charged with assisting and encouraging graduates to become qualified professional engineers.

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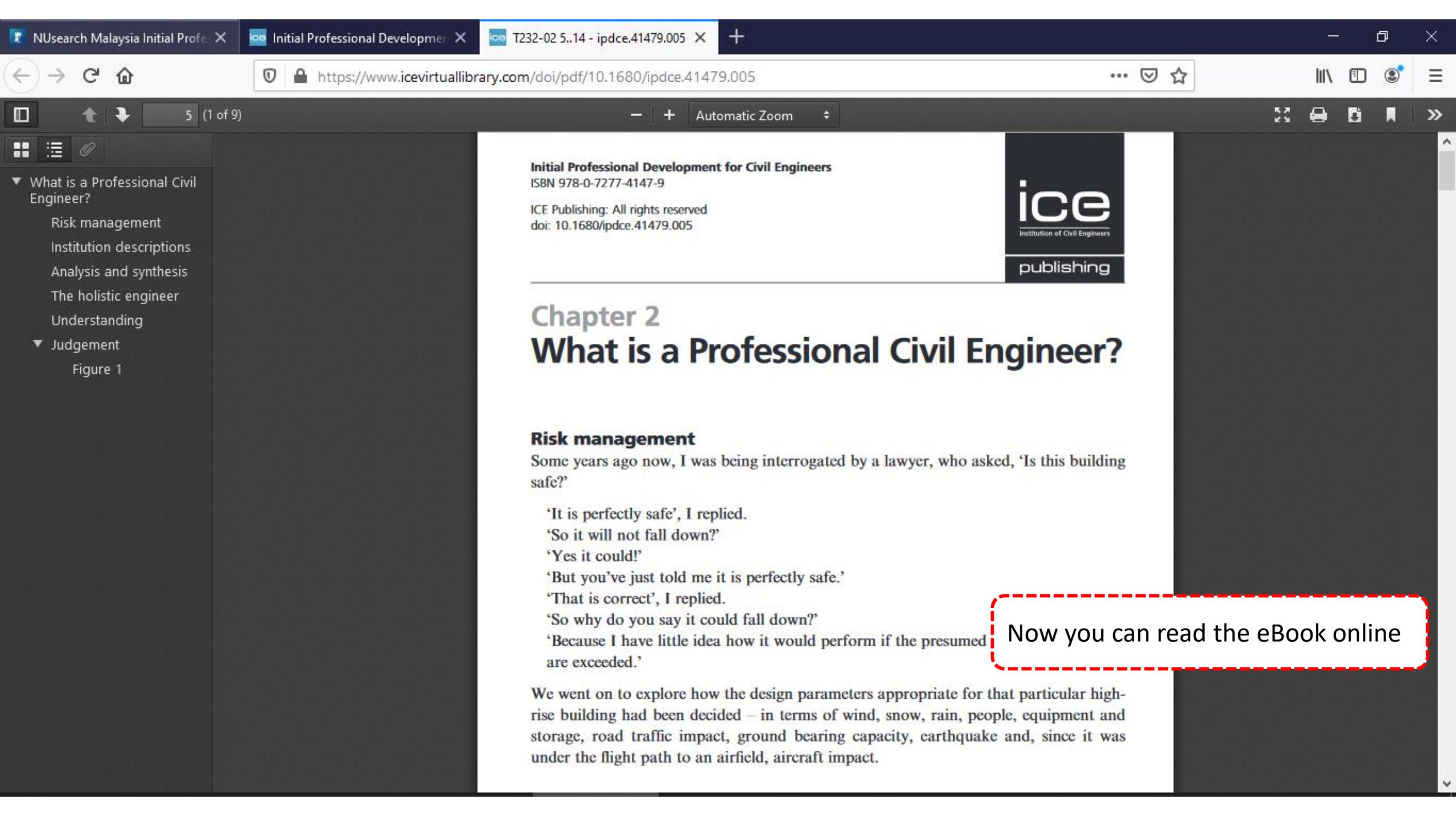
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Initial Professional Development for Civil Engineers  
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## Chapter 2

# What is a Professional Civil Engineer?

### Risk management

Some years ago now, I was being interrogated by a lawyer, who asked, 'Is this building safe?'

'It is perfectly safe', I replied.

'So it will not fall down?'

'Yes it could!'

'But you've just told me it is perfectly safe.'

'That is correct', I replied.

'So why do you say it could fall down?'

'Because I have little idea how it would perform if the presumed  
are exceeded.'

We went on to explore how the design parameters appropriate for that particular high-rise building had been decided – in terms of wind, snow, rain, people, equipment and storage, road traffic impact, ground bearing capacity, earthquake and, since it was under the flight path to an airfield, aircraft impact.

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