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## Page Formatting and Typeface

To accommodate the needs of those with weaker vision, we use LARGER PRINT throughout the book whenever practical. The text in this book was created using Garamond (size 16). A little bit of page resizing, however, may have happened along the actual book printing process.

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## **Exam topics covered in this book**

According to the NCARB, the registration of architects is a means by which U.S. registration boards and Canadian provincial and territorial associations fulfill their mission to safeguard public health, safety, and welfare. The exam consists of seven divisions, and this product covers the CODES & REGULATIONS / MATERIALS & TECHNOLOGY sections of the Building Design & Construction Systems division. The contents deal with the impact of design decisions in the selection of systems, materials, and methods on building design and construction, with code compliance in mind.

The ExamFOCUS notes targets readers with real world experience in the construction industry. To succeed in the exam, you need to read as many reference books as possible. There is no single book that can cover everything!

The ARE exam is a comprehensive one which is far from being easy! There are both MC questions and Graphical questions. To succeed in the exam, you need to read as many reference books as possible. There is no single book that can cover everything! This ExamFOCUS book focuses on the more difficult topics that will likely make a difference in exam results. The book is NOT intended to guide you through every single official topic. You should therefore use this book together with other reference books for the best possible preparation outcome.

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## Review questions

1. Mechanics deals with:
2. The study of statics is directed toward the description of:
3. What is “Force”?
4. Dynamics is all about the study of:
5. Kinematics is the study of motion itself with reference to the forces which cause the motion. True?
6. A vector quantity is a quantity which includes:
7. What kind of force represents the effects of inertia that arise in connection with rotation?
8. What is “Friction”?
9. Stress is a term commonly used to express:
10. What properties indicate how a material is going to react to forces being applied in tension?
11. Hardness deals with the resistance of a material to:
12. The term Hardness may be applied to deformation from:
13. In metals, ceramics and most polymers, the deformation considered is known as:
14. The ability of a material to deform plastically and to absorb energy prior to fracture is known as: