

The formulae  $\frac{\partial \mu_i}{\partial x_i} + \frac{\partial (\rho U \mu_i)}{\partial x_j} = -\frac{\partial p}{\partial x_i} + \frac{\partial}{\partial x_j} \left( \mu \frac{\partial U_i}{\partial x_j} \right) + g_i(\rho - \rho_0)$  for building  $\frac{\partial}{\partial x_j} (\rho U \mu_i) = -\frac{\partial p}{\partial x_i} + \frac{\partial}{\partial x_j} \left( \mu \frac{\partial U_i}{\partial x_j} - \rho u_i u_j \right) + g_i(\rho - \rho_0)$  state of the art  $\frac{\partial}{\partial x_j} (\rho U \mu_i) = \frac{\partial}{\partial x_i} \left( \mu \frac{\partial U_i}{\partial x_j} - \rho u_i u_j \right)$  biomedical research facilities.

## Design Requirements Manual (DRM) Update

The first edition of the document that evolved into the DRM was published in 1996 as the *NIH Design Policies and Guidelines*. Since then, it has undergone many updates to stay relevant and current as the leading source of information for the planning, design, and construction of state-of-the-art biomedical research facilities.

The last comprehensive revised edition was published in 2016, and since that time, numerous focused revisions have kept it up to date. The current edition of the document is Rev. 1.5. However, in response to developments in the industry, the Division of Technical Resources has been working on the latest comprehensive edition, which will be published chapter-by-chapter as each chapter is completed to release the information as quickly as possible.

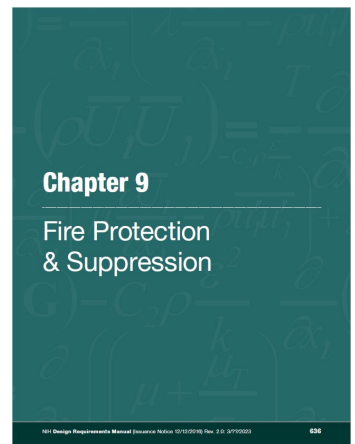
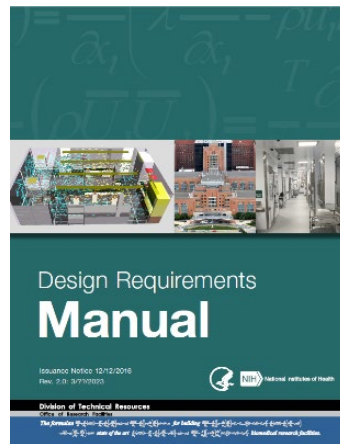
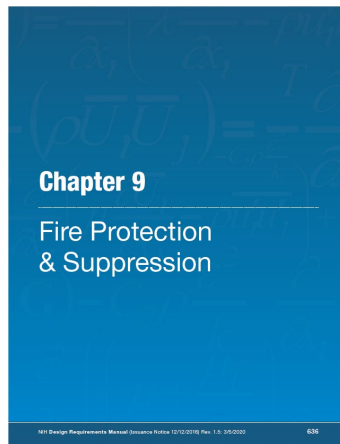
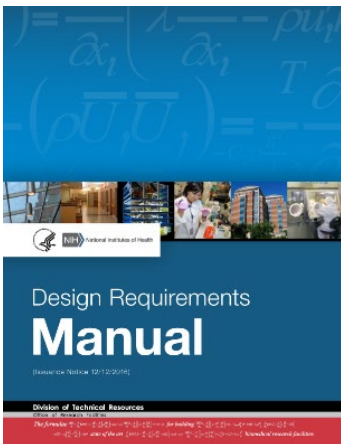
On March 12<sup>th</sup>, the 2024 edition of the DRM was launched with the publication of the following revised chapters: “Chapter 3: Civil Engineering and Site Development,” “Chapter 5: Structural Design,” and “Chapter 9: Fire Protection & Suppression.” All other chapters and appendices will remain unchanged until they are revised in turn. This edition will be denoted as DRM Rev. 2.0, and subsequent versions will be denoted as 2.1, 2.2, 2.3, etc. as additional revised chapters and appendices are

published. To distinguish new content, the DRM cover and the covers of all revised chapters and appendices will be green, as opposed to the blue covers in Rev. 1.5 and previous.

A special “News to Use” update will be distributed to announce each publication update, both to spread news of publication and, if a chapter has undergone significant changes, to review these changes and their rationale.

The DRM has always been a living document, enhanced by frequent updates and revisions. When used as a reference document for a design project, it is important to acknowledge which version is in force. It is recommended that project team members (Project Officers, A/Es, and consultants) download the current version of the DRM on the date of award and reference that version for the duration of the project. It is important to note the version being referenced in the Basis of Design and the Construction Documents.

We look forward to supporting NIH and the international community as a reliable resource for best practices in biomedical facility design. If you have any questions about the DRM, please email [DRM@nih.gov](mailto:DRM@nih.gov) or contact communications editor Nika Lilley at [nika.lilley@nih.gov](mailto:nika.lilley@nih.gov).



Left: Old DRM Rev. 1.5 manual and chapter covers, in blue; right: New DRM Rev 2.0 manual and chapter covers, in green