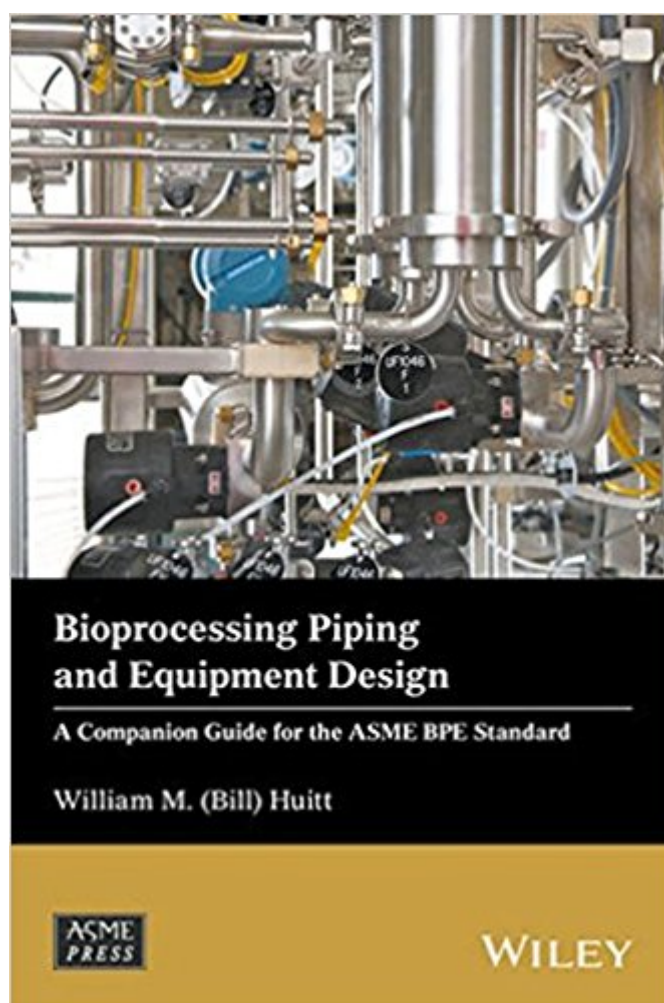


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# Bioprocessing Piping And Equipment Design: A Companion Guide For The ASME BPE Standard (Wiley-ASME Press Series)



## Synopsis

The only comprehensive and authoritative reference guide to the ASME Bioprocessing Piping and Equipment (BPE) standard. This is a companion guide to the ASME Bioprocessing Piping and Equipment (BPE) Standard and explains what lies behind many of the requirements and recommendations within that industry standard. Following an introductory narrative to the Standard's early history, industry related codes and standards are explained; the design and engineering aspects cover construction materials, both metallic and nonmetallic; then components, fabrication, assembly and installation of piping systems are explored. Examination, Inspection and Testing then precede the ASME BPE certification process, concluding with a discussion on system design. The author draws on many years' experience and insights from first-hand involvement in the field of industrial piping design, engineering, construction, and management, which includes the bioprocessing industry. The reader will learn why dimensions and tolerances, process instrumentation, and material selection play such an integral part in the manufacture of components and instrumentation. This easy to understand and navigate guide will assist engineers (design, piping, chemical, etc.) who need to understand the basis for much of the Standard's content, as do the contractors and inspectors who have to meet and validate compliance with the BPE Standard.

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William M. (Bill) Huitt has been involved in industrial piping design, engineering and construction since 1965. Positions have included design engineer, piping design instructor, project engineer, project supervisor, piping department supervisor, engineering manager and president of W. M. Huitt Co., a piping consulting firm founded in 1987. His experience covers both the engineering and construction fields and crosses industry lines to include petroleum refining, chemical, petrochemical, pharmaceutical, pulp & paper, nuclear power, biofuel, and coal gasification. He has written numerous specifications, guidelines, papers, and magazine articles on the topic of piping design and engineering. Bill is a past member of ISPE (International Society of Pharmaceutical Engineers), CSI (Construction Specifications Institute) and current member of ASME (American Society of Mechanical Engineers).

This is an excellent resource for understanding the valuable work by the ASME BPE committee in coming up with this standard. The companion guide's author provides a thorough map for understanding the ASME BPE standard and will ultimately help anyone involved in the design, fabrication, purchase, maintenance, inspection, and ownership of bioprocessing systems. Even if your system is not under the FDA regulations this guide highlights the design for clean-ability

standards from the perspective of a key ASME committee member with many years of experience.

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