

## Chapter 3: Review of Basic Vacuum Calculations

Before we go any further, some time should be spent on some of the vocabulary specific to vacuum technology.

**Vacuum:** from a practical sense, vacuum may be defined as the condition of a gas under less than atmospheric pressure.

Table 3.1. Vacuum Ranges

Vacuum Description	Range
Low vacuum	10 <sup>0</sup> to 10 <sup>2</sup> Torr
Medium vacuum	10 <sup>1</sup> to 10 <sup>3</sup> Torr
High vacuum	10 <sup>2</sup> to 10 <sup>4</sup> Torr
Very high vacuum	10 <sup>3</sup> to 10 <sup>5</sup> Torr
Ultrahigh vacuum	10 <sup>4</sup> to 10 <sup>6</sup> Torr
Extreme Ultrahigh vacuum	Below 10 <sup>6</sup> Torr

Vacuum technology is based upon the creation of an environment in which a process (thin film deposition, electron beam welding, etc.) can be carried out. This normally implies that one removes air from a system to some acceptable sub-atmospheric pressure by the use of some type of vacuum pumping equipment.

**Atmosphere:** The blanket of gases that surrounds the surface of the earth and extends outward to a distance of about 25 miles is referred to as "air" or "the atmosphere". This mixture of gases exerts a pressure that presses uniformly on all objects on the surface of the earth. This pressure is about 15 pounds per square inch at sea level.

Table 3.2. Composition of Dry Air

Gas	Partial Pressure (Torr)	Percent (by volume)
Nitrogen	11.9	78.1
Oxygen	1.9	21.0
Argon	0.3	0.934
Carbon dioxide	0.3	0.075
Neon	0.3 x 10 <sup>-2</sup>	0.0018
Helium	0.5 x 10 <sup>-2</sup>	0.0013
Methane	1.5 x 10 <sup>-2</sup>	0.004
Krypton	0.1 x 10 <sup>-2</sup>	0.00028
Xenon	0.8 x 10 <sup>-2</sup>	0.0002
Water vapor	0.3 x 10 <sup>-2</sup>	0.0008
Other	0.5 x 10 <sup>-2</sup>	0.00001

# Chapter 3 Review Of Basic Vacuum Calculations

**Dennis G. Zill, Warren S. Wright**



## Chapter 3 Review Of Basic Vacuum Calculations

Numerical Relativity: Starting from Scratch Thomas W. Baumgarte, Stuart L. Shapiro, 2011-04-08 A pedagogical and accessible introduction to numerical relativity the key tool to model gravitational waves and black hole mergers Applied Mechanics Reviews, 1972

Water and Wastewater Conveyance Frank R. Spellman, 2016-08-05 Water and Wastewater Conveyance Pumping Hydraulics Piping and Valves provides fundamental basic information on the conveyance of water and wastewater Written in straight forward and easy to understand language for professionals and non professionals alike it provides the techniques to assist water and wastewater operators to better understand basic pump operations and applications maintenance regimens and troubleshooting procedures Addressing a multitude of water quality issues it provides an introduction to water hydraulics piping systems tubes hoses and ancillaries as well as valves and the maintenance requirements of each It also discusses common operational problems and their appropriate corrective actions Definitions of key terms and self examination questions are provided at the end of each chapter

*A Bayesian Analysis of QCD Sum Rules* Philipp Gubler, 2013-03-29 The author develops a novel analysis method for QCD sum rules QCDSR by applying the maximum entropy method MEM to arrive at an analysis with less artificial assumptions than previously held This is a first time accomplishment in the field In this thesis a reformed MEM for QCDSR is formalized and is applied to the sum rules of several channels the light quark meson in the vector channel the light quark baryon channel with spin and isospin 1/2 and several quarkonium channels at both zero and finite temperatures This novel technique of combining QCDSR with MEM is applied to the study of quarkonium in hot matter which is an important probe of the quark gluon plasma currently being created in heavy ion collision experiments at RHIC and LHC

**Loss Models** Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2012-09-04 Praise for the Third Edition This book provides in depth coverage of modelling techniques used throughout many branches of actuarial science The exceptional high standard of this book has made it a pleasure to read Annals of Actuarial Science Newly organized to focus exclusively on material tested in the Society of Actuaries Exam C and the Casualty Actuarial Society's Exam 4 Loss Models From Data to Decisions Fourth Edition continues to supply actuaries with a practical approach to the key concepts and techniques needed on the job With updated material and extensive examples the book successfully provides the essential methods for using available data to construct models for the frequency and severity of future adverse outcomes The book continues to equip readers with the tools needed for the construction and analysis of mathematical models that describe the process by which funds flow into and out of an insurance system Focusing on the loss process the authors explore key quantitative techniques including random variables basic distributional quantities and the recursive method and discuss techniques for classifying and creating distributions Parametric non parametric and Bayesian estimation methods are thoroughly covered along with advice for choosing an

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**Optical Engineering**, 1981 *Fire Data Analysis Handbook*,

Nanotechnology for Microelectronics and Photonics Raúl José Martín-Palma, José Martínez-Duart, 2017-06-01

Nanotechnology for Microelectronics and Photonics Second Edition has been thoroughly revised expanded and updated The aim of the book is to present the most recent advances in the field of nanomaterials as well as the devices being developed for novel nanoelectronics and nanophotonic systems It covers the many novel nanoscale applications in microelectronics and photonics that have been developed in recent years Looking to the future the book suggests what other applications are currently in development and may become feasible within the next few decades based on novel materials such as graphene nanotubes and organic semiconductors In addition the inclusion of new chapters and new sections to keep up with the latest developments in this rapidly evolving field makes Nanotechnology for Microelectronics and Photonics Second Edition an invaluable reference to research and industrial scientists looking for a guide on how nanostructured materials and nanoscale devices are used in microelectronics optoelectronics and photonics today and in future developments Presents the fundamental scientific principles that explain the novel properties and applications of nanostructured materials in the quantum frontier Offers clear and concise coverage of how nanotechnology is currently used in the areas of microelectronics optoelectronics and photonics as well as future proposed devices Includes nearly a hundred problems along with helpful hints and full solutions for more than half of them

**Introduction to General Relativity and the Cosmological Constant**

**Problem** Marcelo Samuel Berman, 2007 This book is an introductory text in General Relativity while also focusing some solutions to the cosmological constant problem which consists in an amazing 100 orders of magnitude discrepancy between the value of this constant in the present Universe and its estimated value in the very early epoch The author suggests that the constant is in fact a time varying function of the age of the Universe The book offers a wealth of cosmological models treats up to date findings like the verification of the Lense Thirring effect in the year 2004 and the recently published research by Cooperstock and Tieu 2005 suggesting that dark matter is not a necessary concept in order to explain the

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*Fundamentals of Microfabrication and Nanotechnology, Three-Volume Set* Marc J. Madou, 2018-12-14 Now in its third edition Fundamentals of Microfabrication and Nanotechnology continues to provide the most complete MEMS coverage available Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes reflecting the substantial growth of this field It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials processes and manufacturing options The first volume offers a rigorous theoretical treatment of micro and nanosciences and includes sections on solid state physics quantum mechanics crystallography and fluidics The second volume presents a very large set of manufacturing techniques for micro and nanofabrication and covers different forms of lithography material removal processes and additive technologies The third volume focuses on manufacturing techniques and applications of Bio MEMS and Bio NEMS Illustrated in color throughout this seminal work is a cogent instructional text providing classroom and self learners with worked out examples and end of chapter problems The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work

Handbook of Surface and Colloid Chemistry K. S. Birdi, 2015-06-25 This new edition of the Handbook of Surface and Colloid Chemistry informs you of significant recent developments in the field It highlights new applications and provides revised insight on surface and colloid chemistry s growing role in industrial innovations The contributors to each chapter are internationally recognized experts Several chapter

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