

**CONTENTS**

**Section 1**

1. The nature of sound	1
2. Hearing	9

**Section 2**

3. Controlling sound , noise ,and vibration	17
---	----

**Section 3**

Design procedure	84
Background noise criteria	88
Other criteria	90
Site planning	91
Layout and orientation of spaces	93
Typical noise sources	94
Choosing the exterior construction	95
Choosing the interior construction	96
Mechanical equipment noise and vibration control	148
Heating piping , air conditioning and electrical systems	170
Sound fields and sound in enclosures	184
Legal and medical problems	194
Tests and measurements	201
Trouble shooting	206
Industrial noise control – case histories	213
Glossary	227
Bibliography and references	233
The international system of Units (SI)	237
Index	240