

# Contents

<b>Preface to the First Edition</b>	<b>xi</b>
<b>Preface to the Fifth Edition</b>	<b>xiii</b>
<b>Preface to the Sixth Edition</b>	<b>xv</b>
<b>Notation</b>	<b>xvii</b>
<b>Glossary</b>	<b>xix</b>
<b>1 General Review</b>	<b>1</b>
1.1 Developments in System Design	9
1.2 Performance Conflicts	12
1.3 The Stereo Illusion	13
1.4 Sensitivity and Impedance	13
1.5 Enclosures	14
1.6 Drive Units	15
1.7 The Room	17
Bibliography	18
<b>2 Theoretical Aspects of Diaphragm Radiators</b>	<b>21</b>
2.1 Radiation from Simple Sources	21
2.2 Electromechanics of a Hypothetical Moving-coil Loudspeaker	27
2.3 Radiated Pressure	37
2.4 Relating the TwoPort Model to Low-frequency Analogous Circuits	44
2.5 Higher Modes of the Loudspeaker Diaphragm	47
References	56
<b>3 Transducers, Diaphragms and Loudspeaker Technology</b>	<b>57</b>
3.1 Dome Radiators	57
3.2 Velocity of Sound in a Diaphragm	62
3.3 Compensation of Dome Characteristics	63
3.4 Cone Behaviour	64
3.5 Cone Parameters	64
3.6 Cone Shape	69
3.7 Motor Systems	76
3.8 Moving-coil Motor Linearity	77