

Contents

FOREWORD

xiii

1: WHAT TELEVISION IS

Seeing at a distance by wire or radio—the three stages: picking up the image, transmitting it, receiving it—how the camera scans the picture—three million signals a second—the limitation of range.

1

2: TELEVISION AT WORK: IN THE STUDIO

What a television studio looks like—silence, movement, cables, floods of light—up in the gallery—the producer talks to the crew—Preview and Transmission screens—mixing and cutting—how a play is planned, designed, and rehearsed—other studio productions—the problem of sound.

10

3: TELEVISION AT WORK: FILM

How film is scanned for television—the rôle of film in television programmes—films made for theatres and their uses—films made for television: actuality, newsreels, international exchange—film recording of television—saving studio space, improving production quality—television transcriptions—television production as the new way of making films.

27

4: TELEVISION AT WORK: OUTSIDE BROADCASTS

The first television outside broadcast in 1937—post-war developments—new cameras and mobile units—American achievements—at Forest Hills with NBC—lightweight transmitters and lens turrets—outside pick-ups from relay stations to extend television's range—the job of the director and commentator—interviews and actualities.

43

5: PRESENT LIMITATIONS

Why are television pictures not so good as cinema pictures?—the vanishing bogey of 'tilt-and-bend'—depth of focus—cold lighting—super-sensitive cameras—definition standards—405 lines or 1000?—big screens and their drawbacks—the complications of colour—it will come, but when?

58

6: RUNNING A TELEVISION STATION

Large stations and small—planning a programme schedule—28 hours a week—work of producers, design department, presentation department—the ideal announcer—what will television cost?

82

7: HOW TELEVISION STANDS TODAY

Slow progress since 1936—varied prospects but little performance outside Britain and U.S.A.—British and American television compared—how good are the programmes?—sport and plays but little information, comedy, imagination—coverage and audience—America five years ahead.

91

8: HOW IT CAN DEVELOP

Stations can start in a small way—mobile units, film scanners, recorders—network progress—stratovision relays—sharing studios with the film industry—cheaper sets, bigger screens—programmes of the future—breaking down the bans—will television kill organised entertainment?

105

9: TELEVISION BETWEEN THE NATIONS

The limitation of range—no long-distance television, no national propaganda, no video Haw-Haw—international television depends upon local relays—why not exchange programmes between London, Paris, Brussels, Amsterdam?—solving differences of language and standards—exchange of recordings as the first step.

118

10: TELEVISION AS A TOOL

Uses of television process apart from visual broadcasting—war, industry, science—high-speed facsimile—making films by television—showing films by television—television broadcasting still the main task.

124

11: VISION OF THE FUTURE

The window on the world—sight and sound in the home—alternative programmes—politicians on the screen—getting information painlessly—seeing how the other half lives—effects on social habits—the rôle of sound radio in the television age.

130

THE PROGRESS OF TELEVISION: PRINCIPAL DATES

142