

## CONTENTS

|  | Page |
|--|------|
| The Belt . . . . .                           | 9    |
| The Friction Pulley . . . . .                | 10   |
| The Brake . . . . .                          | 12   |
| The Picking Motion . . . . .                 | 13   |
| Pickersticks Splitting . . . . .             | 15   |
| Banging Off . . . . .                        | 16   |
| Throwing the Shuttles Crooked . . . . .      | 18   |
| Shuttles Flying Out . . . . .                | 21   |
| Pickerstick Rebounding . . . . .             | 24   |
| Bobbin Splitting . . . . .                   | 25   |
| Screws Breaking in the Pickerstick . . . . . | 27   |
| The Shuttle Binder . . . . .                 | 28   |
| Filling Kinking . . . . .                    | 31   |
| Warp Kinking . . . . .                       | 33   |
| Position of the Whip Roller . . . . .        | 34   |
| Filling Cutting . . . . .                    | 36   |
| The Headmotion . . . . .                     | 38   |
| The Oblong and Eccentric Gears . . . . .     | 40   |
| Setting the Eccentric Gears . . . . .        | 41   |
| Setting the Boxmotion . . . . .              | 41   |
| Resetting the Headmotion . . . . .           | 42   |
| Setting the Chain Cylinder . . . . .         | 42   |
| Setting the Lock Knife . . . . .             | 43   |

**CONTENTS—Continued**

|   |    |
|---|----|
| Setting the Reverse Gears . . . . .               | 43 |
| Leveling Up the Shuttle Boxes . . . . .           | 43 |
| Box Jumping . . . . .                             | 45 |
| Bending the Box Rod . . . . .                     | 46 |
| Lining Up a Lay End . . . . .                     | 47 |
| Putting in a New Vibrator Comb . . . . .          | 48 |
| Harness Skips . . . . .                           | 49 |
| Chain Drafting . . . . .                          | 52 |
| Putting on a New Picker . . . . .                 | 55 |
| Two Holes in the Picker . . . . .                 | 57 |
| Shuttles Chipping . . . . .                       | 58 |
| Shuttles Turning Over . . . . .                   | 58 |
| Fancy Shuttle Working Outward . . . . .           | 59 |
| The Filling Stopmotion . . . . .                  | 60 |
| Broken Picks . . . . .                            | 63 |
| Feeler Wires Tearing the Cloth . . . . .          | 66 |
| Weaving Soft Bobbins, Yarn Slipping Off . . . . . | 67 |
| Setting the Temple . . . . .                      | 68 |
| Putting in a New Warp . . . . .                   | 70 |
| Uneven Weaving . . . . .                          | 73 |
| Handling Bad Warps . . . . .                      | 78 |
| Building Up a Section of Looms . . . . .          | 81 |
| How to Improve Looms in Poor Condition . . . . .  | 84 |
| Odds and Ends . . . . .                           | 87 |