

## ELECTRO-MOTIVE FORCE OF VARIOUS CELLS.

| Daniell                      | Zinc amalg | Sulphuric acid, 7 $\frac{1}{2}$ to 1 | Saturated solution of copper sulphate | Copper    | Volts. 1.079   |
|------------------------------|------------|--------------------------------------|---------------------------------------|-----------|----------------|
| "                            | "          | 22 to 1                              | "                                     | "         | 0.978          |
| "                            | "          | "                                    | Nitrate of copper saturated           | "         | 1.000          |
| "                            | "          | "                                    | Sulphate of copper                    | "         | 0.909          |
| "                            | "          | Sulphate of zinc                     | "                                     | "         | 0.955          |
| "                            | "          | 1 part common salt, 4 parts water    | "                                     | "         | 1.060          |
| Grove                        | "          | Sulphuric acid, 7 $\frac{1}{2}$ to 1 | Nitric acid (fuming)                  | Platinum  | 1.956          |
| "                            | "          | Salt water                           | Nitric acid, sp. gr. 1.33             | "         | 1.904          |
| "                            | "          | Sulphuric acid, 22 to 1              | "                                     | "         | 1.810          |
| "                            | "          | Sulphate of zinc                     | "                                     | "         | 1.672          |
| Bunsen                       | "          | Dilute sulphuric acid                | Nitric acid                           | Carbon    | 1.734          |
| Callan                       | "          | "                                    | "                                     | Cast iron | 1.700          |
| Poggendorf                   | "          | "                                    | Chromic mixture                       | Carbon    | 1.796<br>2.028 |
| Marie Davy                   | "          | Sulphuric acid, 22 to 1              | Paste of sulphate of mercury          | "         | 1.524          |
| "                            | "          | Dilute sulphuric acid                | "                                     | "         | 1.33           |
| Leclanche                    | "          | Solution of sal ammoniac             | Binoxide of manganese                 | "         | 1.481          |
| De la Rue                    | Zinc       | Chloride of silver                   | Silver                                | Silver    | 1.059          |
| Becquerel                    | Zinc amalg | Sulphate of zinc                     | Sulphate of lead                      | Lead      | 0.55           |
| Niaudet                      | "          | Common Salt                          | Chloride of lime                      | Carbon    | 1.65           |
| Duchemin                     | "          | "                                    | Perchloride of iron                   | Lead      | 1.541          |
| "                            | Platinum   | Dilute sulphuric acid                | Dilute sulphuric acid                 | Platinum  | 1.79           |
| Plante                       | Lead       | "                                    | "                                     | Lead      | 2.5            |
| Latimer Clark, Standard cell | Zinc amalg | Sulphate of zinc                     | Paste of sulphate of mercury          | Mercury   | 1.457          |

Porous Cell.

\*This table is due to M. Niaudet, and is given in "A Physical Treatise on Electricity and Magnetism," by J. E. H. Gordon, B.A., Camb.