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First edition  
2010-06-01

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## **Microbeam analysis — Analytical transmission electron microscopy — Methods for calibrating image magnification by using reference materials having periodic structures**

*Analyse par microfaisceaux — Microscopie électronique en  
transmission analytique — Méthodes d'étalonnage du grandissement  
d'image au moyen de matériaux de référence de structures périodiques*



Reference number  
ISO 29301:2010(E)

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Published in Switzerland

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## Foreword

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ISO 29301 was prepared by Technical Committee ISO/TC 202, *Microbeam analysis*, Subcommittee SC 3, *Analytical electron microscopy*.

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## Introduction

The transmission electron microscope is widely used to investigate the micro/nano-structure of a range of important materials such as semiconductors, metals, nano-particles, polymers, ceramics, glass, food and biological materials. This International Standard is relevant to the need for magnification calibration of the images. It describes the requirements for calibration of the image magnification in the transmission electron microscope using a certified reference material or a reference material having periodic structures.