A Mathematical Introduction to Conformal Field Theory: Based on a Series of Lectures Given at the Mathematisches Institut Der Universitdt Hamburg (Advances in Anatomy, Embryology and Cell Biology)

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This work is divided into two parts, the first provides an exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions. The conformal groups are determined and the appearence of the Virasoro algebra in the context of the quantization of two-dimensional conformal symmetry is explained via the classification of central extensions of Lie algebras and groups. Part two surveys more advanced topics of conformal field theory such as the representation theory of the Virasoro algebra, conformal symmetry within string theory, an axiomatic approach to Euclidean conformally covariant quantum field theory and a mathematical interpretation of the Verlinde formula in the context of moduli spaces of holomorphic vector bundles on a Riemann surface.

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