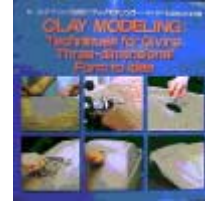


Clay Modeling: Techniques of giving Three- Dimensional Form to Idea

Yasusato Yamada

This is a wonderful complement to the videos. Containing 150 pages, this full color publication will identify all aspects of clay procedures in automobile development.



Prologue Modeling Work and the Modeler

Modeling as a profession - Modeling objectives - History of the clay model - Modeling process - Role of the modeler - Relationship between designer and modeler - Exhibition for a group of sculptors - "The Art and Spirit of the Artisan"

Chapter 1 Clay, Tools, and Equipment

"Clay" -Clay ovens and clay shapers -Modeling tools, equipment and materials -List of materials and conditions for selection -Tools to enhance communication between designers and modelers

Chapter 2 The Basics of Modeling

Types and names of clay models -The functions of design models -The size of clay models - Design of the model core - Establishing modeling standards - Posture of models - The structure 1/1 models - Thickness of the clay -Packing techniques -Scraping and pile-up

Chapter 3 Modeling With True Sweeps

"True Sweeps" -Modeling with true sweeps -Preparing standard surfaces of the upper area of the body - Preparing the standard surfaces of the bottom area of the body -Modeling of the complex surfaces - Parting parts and details

Chapter 4 Sensory Modeling

Eyeballing work-Seeking themes (concepts)-Follow design conditions (plot regulated points)- Side window glass face - Making the bottom of the side sill - Making the greenhouse - Making the surface of the side of the body - Constructing the wheelhouse openings - Constructing the front end - Constructing the hood and front fender - A second look at the entire construction

Chapter 5 Techniques of Polishing Up

Optical illusion - Definition of plane - Using modeling tools - Producing a full-scale engine hood - Calculating quantity of clay to be used - Five points in modeling

Chapter 6 An Example of the Modeling Process

Verification of the design intent - Preparing the buck - Rough claying - Making the templates and modeling the parts -Finishing the each part

Chapter 7 3-dimensional Design of the Interior

Preparing a layout diagram - Conditions for completion - Characteristics of interior modeling - Valuable information upon modeling - Type of interior models and how to make them

Chapter 8 Practice With Interior Clay Models

The interior model: An assembly of small parts - Materials and tools -The process of clay modeling

Chapter 9 Fitting Purpose and Process

The final stage in modeling - Fitting for exterior - Creating components - Fitting of the interior

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Epilogue Toward Ideal Car Modeling (Q & A)

Actual Modeling and CAD/CAM - Modeling techniques - Background knowledge for modeling work -
The modeler's domain future problem -To those planning to become modelers- Modeler's crafts "The Art
and Spirit of the Artisan"