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Nota di contenuto	Projection Displays; Contents; Foreword; Preface to the Second Edition; About the Authors; 1 Introduction; 1.1 Overview of Projection Displays; 1.2 Book Organization; 1.3 What is not Covered; 2 Markets and Applications; 2.1 Overview; 2.1.1 Microdisplays, Light Valves and Light Amplifiers; 2.1.2 Emissive Systems; 2.1.3 Laser-based Projection Technology; 2.2 Applications and Performance Requirements; 2.2.1 Differentiators among Projectors; 2.2.2 Requisite Luminance Levels; 2.2.2.1 Flux requirement for presentation and auditorium applications; 2.2.3 Resolution; 2.2.4 Electronic Cinema 3 Emissive Image Sources3.1 Projection CRTs; 3.1.1 Luminous Output of Projection CRTs; 3.1.2 Phosphors; 3.1.3 Resolution of Projection CRTs; 3.1.4 Spot Size of Beam; 3.1.5 Light Collection/Curvature; 3.2 Field-emission Devices; 4 Liquid Crystal Light Valves and Microdisplays;

4.1 Active Matrices; 4.1.1 Operation of Active-matrix Circuits; 4.1.1.1 Effects of leakage; 4.1.1.2 Charging currents; 4.1.2 Technologies; 4.1.2.1 -Si TFTs; 4.1.2.2 Poly-Si TFTs; 4.1.2.3 Crystalline silicon active matrices; 4.1.2.4 Active matrices based on two terminal devices; 4.2 Liquid Crystal Effects 4.2.1 Liquid Crystal Cells 4.2.2 Nematic Cells; 4.2.2.1 Parallel aligned layer cells; 4.2.2.2 Twisted nematic cells; 4.2.3 Polymer-dispersed Liquid Crystal (PDLC); 4.2.4 Other Liquid Crystal Effects; 4.2.5 Liquid Crystal Effects for Reflective Microdisplays; 4.2.6 Liquid Crystal Inversion; 5 Micro-electromechanical Devices; 5.1 DMD; 5.1.1 Device Operation; 5.1.2 Gray Scale; 5.1.3 Contrast and DLP Pixel Design; 5.2 Linear MEMS Arrays; 5.2.1 Grating Light Valve; 5.2.2 GEMS System; 5.3 MEMS Scanning Mirrors; 6 Filters, Integrators and Polarization Components 6.1 Factors affecting Projector Optical Performance 6.2 Component Efficiency; 6.3 Spectral Filters; 6.3.1 Fresnel Reflection at Optical Surfaces; 6.3.2 Dichroic Filters; 6.3.2.1 Dichroic filters at non-normal incidence; 6.3.2.2 Dichroic filters in polarized light; 6.3.2.3 Dichroic filters in the imaging path; 6.3.2.4 Anti-reflection coatings; 6.3.3 Absorptive Filters; 6.3.4 Electrically Tunable Color Filters; 6.3.5 Mirrors; 6.3.6 Total Internal Reflection; 6.3.6.1 TIR prisms for angular separation; 6.3.7 Filters for UV Control; 6.3.8 Filters for IR Control 6.3.9 Indium-Tin Oxide and Other Transparent Electrodes 6.4 Integrators; 6.4.1 Lenslet Integrators; 6.4.2 Rod Integrators; 6.4.3 Integrators for Projectors with Laser or LED Illumination; 6.4.4 Other Integrator Types; 6.4.5 Light Guides; 6.5 Polarization Components; 6.5.1 Absorptive Polarizers; 6.5.2 Reflective Polarizer Technology; 6.5.2.1 Brewster angle reflection; (a) Brewster plate; (b) MacNeille polarizing prisms; 6.5.2.2 Birefringent multilayer reflective polarizer; 6.5.2.3 Bertrand-Feussner prism; 6.5.2.4 Wire grid polarizers; 6.5.2.5 Other reflective polarizers 6.5.3 Polarization Conversion Systems

Sommario/riassunto

Projection is a technology for generating large, high resolution images at a price point end users can afford. This allows it to be used in a wide variety of large-screen markets such as television and cinema. In addition, there are emerging small screen markets where a pocketable miniaturized projector can display images from mobile information devices such as smart phones or portable media players. Fully revised, this second edition of Projection Displays provides up-to-date coverage of the optical and mechanical systems in electronic projection displays. It takes into accou

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Nota di contenuto	Frontmatter -- Inhalt -- Einleitung -- Grundlagen einer auswärtigen Staatsarchitektur -- Anfänge des deutschen Gesandtschaftsbaus -- Das Repräsentationsverständnis des Diplomatischen Korps -- Bautypologische Vorbilder -- Deutsche Auslandsvertretungen 1871–1945 -- Deutsches Kaiserreich -- Weimarer Republik -- Nationalsozialismus -- Zwei deutsche Staaten 1949–1990 -- Botschaften der Bundesrepublik Deutschland -- Neuanfang trotz aller Kontinuitäten -- Bauten für die Besatzungsmächte -- Visitenkarten im Ausland -- Orientierung / 1953 -- Haltung der Zurückhaltung / 1958 -- Etablierung / 1963 -- Botschaftsbauten als kulturelles Phänomen -- Botschaften der Deutschen Demokratischen Republik -- Aufbau diplomatischer Missionen -- Architektur, Kulturpolitik und sozialistische Ideologie -- Planen und Bauen: Akteure und Projekte zur Auswärtigen Repräsentation -- Instruierter Auftakt / 1950 -- Paradigmenwechsel / 1960 -- Helsinki (1966–1968): Prinzip der Gleichartigkeit und Ebenbürtigkeit -- Annäherung / 1969 -- Abbilder baukünstlerischen Schaffens -- Visuelle Rhetorik deutscher Botschaften

-- Zwei deutsche Botschaften sind eine zu viel -- Projektliste --
Endnoten -- Abkürzungen -- Archive -- Personenregister --
Standortregister -- Literaturverzeichnis

Sommario/riassunto

Botschaftsneubauten sind prestigeträchtig und identitätsstiftend zugleich. Ihre primäre Aufgabe, einen Staat im Ausland zu vertreten und sein gesellschaftliches Selbstverständnis widerzuspiegeln, macht sie zu politischen Symbolen. In den vergangenen 150 Jahren suchte Deutschland in seinen auswärtigen Staatsbauten stets einen individuellen architektonischen Ausdruck. Insbesondere die während der vierzigjährigen deutschen Teilung von der DDR und der BRD errichteten Neubauten für diplomatische Vertretungen dokumentieren die enge Verknüpfung von politischen, kulturellen und personellen Entscheidungen sowie deren Rahmenbedingungen. Die Bauwerke eröffnen aus ihrer extraterritorialen Position heraus einen erweiterten Blick auf die Geschichte und das Selbstverständnis. Sie prägen den auswärtigen Repräsentationsbau bis heute.

Newly constructed embassies simultaneously convey prestige and establish a national identity. Their primary aim—to represent a state in a foreign country and reflect its societal self-image—turns them into political symbols. Over the past 150 years, Germany has consistently sought to express itself through the distinct architecture of its government buildings in other countries. In particular, the new diplomatic buildings constructed during the forty-year division between the GDR and FRG document the close relationship between political, cultural, and personal choices and their contexts. From their extraterritorial positions, the buildings offer an expanded view of history and self-conception. To this day, they continue to shape representative architecture abroad.
