- 1 Plastic Surgery and Innovation in Medicine
- 2 History of Reconstructive and Aesthetic Surgery
- 3 Applying Psychology to Routine Plastic Surgery Practice
- 4 The Role of Ethics in Plastic Surgery and Medico-legal Issues In Plastic Surgery
- 5 Business Principles for Plastic Surgeons
- 6 Value Based HealthCare
- 7 Digital Photography in Plastic Surgery
- 8 Pre- and Intra-operative Imaging for Plastic Surgery
- 9 Patient Safety in Plastic Surgery
- 10 Anesthesia and Pain Management in Plastic Surgery
- 11 Evidence-Based Medicine in Plastic Surgery
- 12 Patient-Reported Outcomes in Plastic Surgery
- 13 Health Services Research in Plastic Surgery
- 14 Principles of Cancer Management
- 15 Stem Cells and Regenerative Medicine
- 15 Wound Healing
- 16 Scar Prevention, Treatment and Revision
- 17 Skin Grafting
- 18 Tissue Engineering
- 19 Repair, Grafting and Engineering of Cartilage
- 20 Repair and Grafting of Bone
- 21 Repair and Grafting of Peripheral Nerve
- 22 Repair and Grafting Fat and Adipose Tissue
- 23 Vascular Territories
- 24 Flap Physiology, Classification, and Applications
- 25 Principles and Techniques of Microvascular Surgery

- 26 Principles and Applications of Tissue Expansion
- 27 Principles of Radiation
- 28 Lymphedema: Pathophysiology and Basic Science
- 29 Benign and Malignant Non Melanocytic Tumors of the Skin and Soft Tissue
- 30 Melanoma
- 31 Implants and Biomaterials
- 32 Transplantation in Plastic Surgery
- 33 Technology Innovation in Plastic Surgery
- 34 Robotics in Plastic Surgery
- 35 Digital Health in Plastic Surgery
- 36 Simulation & Telemedicine in Plastic Surgery
- 36 Overview of Minimally Invasive Procedures
- 37 Education and Teaching in Plastic Surgery
- 38 Global Plastic Surgery
- 39 Gender Affirming Surgery

- 1 Managing the Aesthetic Surgery Patient
- 2 Principles of Practice Management for Cosmetic Surgery
- 3 Managing Non-surgical Aesthetic Services and Medical Spa
- 4 Essential Elements of Patient Safety in Aesthetic Plastic Surgery
- 5 Multimodal
- 6 Blocks
- 7 Local Anesthesia
- 8 Non-Surgical Skin Care and Rejuvenation
- 9.1 Editors' Perspective: Injectables and Resurfacing Techniques
- 9.2 Soft Tissue Fillers

- 9.3 Botulinum Toxin/Neurotoxins
- 9.4 Lasers in Aesthetic Surgery
- 9.5 Chemical Peels
- 9.6 Minimally Invasive Multimodal Facial Rejuvenation
- 10.1 Editors' Perspective: Surgical Facial Rejuvenation
- 10.2 Anatomy of the Aging Face
- 10.3 Principles and Surgical Approaches of Facelift
- 10.4 Facelift: Facial Rejuvenation With Loop Sutures; The MACS lift and its Derivatives
- 10.5 Facelift: Lateral Smasectomy and Platysma-SMAS Plication
- 10.6 Facelift: The Extended SMAS Technique in Facial Rejuvenation
- 10.7 High SMAS Facelift: Combined Single Flap Lifting of the Jawline, Cheek and Mid-face
- 10.8 Lift and Fill
- 10.9 Neck Rejuvenation
- 10.10 Facelift: The Male Patient
- 10.11 Secondary Deformities and the Secondary Facelift
- 10.12 Perioral Facial Rejuvention including chin
- 10.13 Facial Feminization
- 11 Editors' Perspective: Forehead and Eyes
- 12 Forehead Rejuvenation
- 13 Endoscopic Brow Lifting
- 14 Blepharoplasty
- 15 Secondary Blepharoplasty: Techniques
- 16 Asian Facial Cosmetic Surgery
- 17 Structural Fat Grafting and other fat
- 18 Editors' Perspective: Rhinoplasty
- 19 Nasal Analysis and Anatomy

- 20 Open Technique Rhinoplasty
- 21 Closed Technique Rhinoplasty
- 22 Airway Issues and the Deviated Nose
- 23 Secondary Rhinoplasty
- 24 Otoplasty
- 25 Hair Restoration
- 26.1 Editors' Perspective: Liposuction
- 26.2 Liposuction: A Comprehensive Review of Techniques and Safety and non surgical fat removal
- 26.3 Correcting liposuction deformities with S.A.F.E liposuction technique
- 27 Editors' Perspective: Abdominal Contouring
- 28 Abdominoplasty
- 29 Lipoabdominoplasty
- 30 Editors' Perspective: Truncal Contouring
- 31 Bra-Line Back Lift
- 32 Belt Lipectomy
- 33 Circumferential Lower Bodylift
- 34 Purse-string Gluteoplasty
- 35 Lower Bodylift with Gluteal Flaps
- 36.1 Editors' Perspective: Buttock Augmentation
- 36.2 Implant Based Buttock augmentation
- 36.3 Buttock Fat Grafting and Liposuction
- 37 Upper Limb Contouring
- 38 Medial Thigh
- 39 Principles of Post Bariatric Surgery
- 40 Energy Devices in Aesthetic Surgery
- 41 Aesthetic Genital Surgery

- 1 Management of Facial Trauma
- 2 Scalp and Forehead Reconstruction
- 3 Aesthetic Reconstruction of the Nose
- 4 Auricular Construction
- 5 Secondary Treatment of Acquired Cranio-orbital Deformities
- 6.1 Introduction: Computerized Surgical Planning
- 6.2 Three-Dimensional Virtual Planning in Orthognathic Surgery
- 6.3 Computerized Surgical Planning in Head and Neck Reconstruction
- 7 Introduction: Post-Oncologic Reconstruction
- 8 Overview of Head and Neck: Bony and Soft Tissue Tumors
- 9 Mid-Face Reconstruction
- 10 Local Flaps for Facial Coverage
- 11 Lip Reconstruction
- 12 Oral Cavity, Tongue and Mandibular Reconstructions
- 13 Hypopharyngeal, Esophageal and Neck Reconstruction
- 14 Secondary Facial Reconstruction
- 15 Facial Paralysis
- 16 Surgical Management of Facial Pain, Including Migraines
- 17 Facial Feminization
- 18 Embryology of the Craniofacial Complex
- 19.1 Unilateral Cleft Lip Introduction
- 19.2 Rotation Advancement
- 19.3 Extended Mohler Repair
- 19.4 Anatomic Subunit Approximation Approach to Unilateral Cleft Lip Repair
- 20 Repair of Bilateral Cleft Lip

- 21.1 Cleft Palate Introduction
- 21.2 Straight Line Repair with Intravelar Veloplasty (IVVP)
- 21.3 Double Opposing Z-plasty
- 21.4 Buccal Myomucosal Flap Palate Repair
- 21.5 Buccal Fat Pad Flap
- 21.6 Oral Fistula Closure
- 21.7 Alveolar Clefts
- 21.8 Orthodontics in Cleft Lip and Palate Management
- 21.9 Velopharyngeal Dysfunction
- 21.10 Secondary Deformities of the Cleft Lip, Nose, and Palate
- 21.11 Cleft and Craniofacial Orthognathic Surgery
- 22 Pediatric facial fractures
- 23 Orbital Hypertelorism
- 24 Craniofacial Clefts
- 25.1 Craniosynostosis Introduction
- 25.2 Single Suture Craniosynostosis
- 25.3 Multisutural Sydromic Craniosynostosis
- 25.4 Neurosurgical and Developmental Issues in Craniosynostosis
- 26 Craniofacial Microsomia
- 27 Idiopathic Progressive Hemifacial Atrophy
- 28 Robin Sequence
- 29 Treacher Collins Syndrome
- 30 Congenital Melanocytic Nevi
- 31 Vascular Anomalies
- 32 Pediatric Chest and Trunk Defects
- 33 Pediatric Tumors
- 34 Conjoined Twins

- 1 Comprehensive Lower Extremity Anatomy
- 2 Management of Lower Extremity Trauma
- 3.1 Lymphedema: Introduction and Editors' Perspective
- 3.2 Imaging Modalities for Diagnosis and Treatment of Lymphedema
- 3.3 Lymphovenous Bypass
- 3.4 Vascularized Lymph Node Transfer
- 3.5 Debulking Strategies and Procedures: Liposuction of Leg Lymphedema
- 3.6 Debulking Strategies and Procedures: Excision
- 4 Lymphatic Reconstruction of the Extremities
- 4 Lower Extremity Sarcoma Reconstruction
- 5 Reconstructive Surgery: Lower Extremity Coverage
- 6.1 Diagnosis, Treatment, and Prevention of Lower Extremity Pain
- 6.2 Lower Extremity Pain: TMR
- 6.3 Lower Extremity Pain: Regenerative Peripheral Nerve Interfaces
- 7 Skeletal Reconstruction
- 8 Foot Reconstruction
- 9.1 Diabetic Foot: Introduction
- 9.2 Diabetic Foot: Management of Wounds and Considerations in Biomechanics and Amputations
- 9.3 Diabetic Foot: Management of Vascularity and Considerations in Soft Tissue Reconstruction
- 10 Comprehensive Trunk Anatomy
- 11 Reconstruction of the Chest
- 12 Reconstruction of the Soft Tissues of the Back
- 13 Abdominal Wall Reconstruction
- 14.1 Gender Affirmation Surgery: Diagnosis and Management

- 14.2 Gender Affirmation Surgery, Male to Female: Vaginoplasty
- 14.3 Gender Affirmation Surgery, Female to Male: Phalloplasty; and Correction of Male Genital Defects
- 14.4 Breast, Chest Wall, and Facial Considerations in Gender Affirmation
- 14.4 Correction of Congenital and Acquired Male Genital Defects
- 15 Reconstruction of Acquired Vaginal Defects
- 16 Pressure Sores
- 17 Perineal Reconstruction
- 18 Acute Management of Burn/Electrical Injuries, including Cold, Chemical, and Exfoliative Injuries
- 19 Extremity Burn Reconstruction
- 20 Management of the Burned Face and Neck
- 21 Pediatric Burns
- 26 Reconstruction of Male Genital Defects
- 33 Reconstructive Burn Surgery
- 34 Cold and Chemical Injury to the Upper Extremity & Disorders, Epidermolysis Bullosa & TEN

- 1 Preoperative assessment and planning of the aesthetic breast patient
- 2 Current status of breast implants
- 3 Primary breast augmentation with implants
- 4 Autologous Fat Transfer: Fundamental Principles & Application for Breast Augmentation
- 5 Composite breast augmentation (fat and implants)
- 6 Augmentation mastopexy
- 7 Mastopexy with suture threads
- 8 Mastopexy After Massive Weight Loss

- 9 Prevention and management of complications following breast augmentation and mastopexy
- 10 Short Scar Breast Reduction
- 11 Reduction mammaplasty with inverted T techniques
- 12 Breast implant illness: Diagnosis and management
- 13 Breast Implant Associated Anaplastic Large Cell Lymphoma (BIA-ALCL): Diagnosis and Management
- 14 A Critical Analysis of Irrigation Solutions in Breast Surgery
- 15 Imaging and surveillance in patients with breast implants
- 16 Breast Implant Explantation: Indications and Strategies to Optimize Aesthetic Outcomes
- 17 Management Strategies for Gynecomastia
- 18 Management Options for Gender Affirmation Surgery of the Breast
- 19 Preoperative Evaluation and Planning for Breast Reconstruction Following Mastectomy
- 20 Current strategies for partial and total mastectomy
- 21 Perfusion assessment techniques following mastectomy and reconstruction
- 22 Introduction to Prosthetic Breast Reconstruction
- 23 One- and two-stage prepectoral reconstruction with prosthetic devices
- 24 One-stage Dual Plane Reconstruction with Prosthetic Devices
- 25 Two-stage Dual Plane Reconstruction with Prosthetic Devices
- 26 One- and two-stage prosthetic reconstruction with total muscle coverage
- 27 Skin Reduction Using "Smile Mastopexy" Technique in Breast Reconstruction
- 28 Management of Complications of Prosthetic Breast Reconstruction
- 29 Secondary refinement procedures following prosthetic breast reconstruction
- 30 Introduction to autologous reconstruction with abdominal free flaps
- 31 Breast reconstruction with the pedicle TRAM flap
- 32 Breast reconstruction with the latissimus dorsi flap

- 33 Autologous breast reconstruction with the DIEP flap
- 34 Autologous breast reconstruction with the Free TRAM flap
- 35 Autologous reconstruction with the SIEA flap
- 36 Introduction to autologous reconstruction with alternative free flaps
- 37 Autologous breast reconstruction with gluteal flaps
- 38 Autologous breast reconstruction with medial thigh flaps
- 39 Autologous breast reconstruction with posterior thigh flaps
- 40 Autologous reconstruction with the lumbar free flap
- 41 Hybrid breast reconstruction: Flaps and Implants
- 42 Innervation of autologous flaps
- 43 Autologous breast reconstruction with stacked flaps
- 44 Management of complications following autologous reconstruction
- 45 ERAS protocols in breast surgery: Techniques and outcomes
- 46 Secondary procedures following autologous reconstruction
- 47 Introduction to oncoplastic breast surgery
- 48 Oncoplastic breast reconstruction: Reduction and mastopexy techniques
- 49 Oncoplastic breast reconstruction: Local flap Techniques
- 50 Surgical and non-surgical Management of lymphedema
- 51 Breast reconstruction and radiation therapy: indications, techniques and outcomes
- 52 Robotic assisted autologous breast reconstruction
- 53 Total Breast Reconstruction by External Vacuum Expansion (EVE) & Autologous Fat Transfer (AFT)
- 54 Current options for nipple reconstruction

Plastic surgery contributions to hand surgery

1 Anatomy and Biomechanics of the Hand

- 1 Examination of the Upper Extremity
- 1 Treatment of the Upper Extremity Amputee
- 1 The Fingertip, Nail Plate and Nail Bed: Anatomy, Repair and Reconstruction
- 1 Infections of the Hand
- 1 Intro
- 1 Introduction: Plastic Surgery Contributions to Hand Surgery
- 1 Peripheral Nerve Repair and Reconstruction
- 1 Embryology, Classification, and Principles of the Management of Congenital Hand Disorders
- 1 Anatomy and biomechanics of the hand
- 1 The Ischemic Hand
- 2 Anesthesia for Upper Extremity Surgery
- 2 Hand Fractures and Joint Injuries
- 2 The Spastic Hand
- 2 Diagnostic Imaging of the Hand and Wrist
- 2 Benign and Malignant Tumors of the Hand
- 2 Brachial Plexus Injuries: Adult and Pediatric
- 2 Examination of the upper extremity
- 2 Whole Limb Upper Extremity Malformations
- 2 Upper Extremity Composite Allotransplantation
- 3 Principles of Internal Fixation as Applied to the Hand and Wrist
- 3 Fractures and Dislocations of the Wrist and Distal Radius
- 3 The Stiff Hand
- 3 Aesthetic Surgery of the Hand
- 3 Malformations with Abnormal Axis Differentiation Affecting the Hand Plate
- 3 Diagnostic imaging of the hand and wrist
- 3 Management of Dupuytren's Disease

- 3 Restoration of Upper Extremity Function in Tetraplegia
- 4 Extensor Tendon Injuries
- 4 Tendon Transfer for Reconstruction of the Wrist and Hand
- 4 Malformations with Abnormal Axis Differentiation Affecting the Hand Plate: Unspecified Axis
- 4 The Painful Hand
- 4 Anesthesia for upper extremity surgery
- 4 Osteoarthritis in the Hand and Wrist
- 4 Hand Therapy
- 5 Hand Deformations and Dysplasias
- 5 Replantation and Revascularization
- 5 Rheumatologic Conditions of the Hand and Wrist
- 5 Nerve Transfers
- 5 Principles of internal fixation
- 6 Reconstructive Surgery of the Mutilated Hand
- 6 Occupational Hand Disorders
- 6 Free-functioning Muscle Transfer in the Upper Extremity
- 6 Nail and fingertip reconstruction
- 6 Congenital Hand Dysplasias: Tumorous Conditions
- 7 Congenital Hand Dyplasias: Congenital Contractures
- 7 Thumb Reconstruction: Non-microsurgical Techniques
- 7 Hand fractures and joint injuries
- 7 Nerve Entrapment Syndromes
- 8 Thumb Reconstruction: Microsurgical Techniques
- 8 Fractures and dislocations of the wrist and distal radius
- 8 Growth Considerations in the Pediatric Upper Extremity
- 9 Flexor tendon injuries and reconstruction

- 10 Extensor tendon injuries
- 11 Replantation
- 12 Reconstructive surgery of the mutilated hand
- 13 Thumb reconstruction: non microsurgical techniques
- 14 Thumb reconstruction: microsurgical techniques
- 15 Infections of the hand
- 16 Tumors of the hand
- 17 Dupuytren's disease
- 18 Osteoarthritis in the hand and wrist
- 19 Rheumatologic conditions in the hand and wrist
- 20 Occupational hand disorders
- 21 Nerve entrapment syndromes
- 22 Peripheral nerve repair and reconstruction
- 23 Brachial plexus injuries: Adult and pediatric
- 24 Tetraplegia
- 25 Tendon transfers
- 26 Nerve transfers
- 27 Free functioning muscle transfer
- 28 The ischemic hand
- 29 The spastic hand
- 30 The Stiff Hand: Prevention and Treatment
- 31 The Painful hand
- 32 Congenital hand 1: Embryology, classification and principles
- 33 Congenital hand 2: Malformations Whole Limb
- 34 Congenital hand 3: Malformations Abnormal Axis differentiation Hand plate
- 35 Congenital hand 4: Malformations Abnormal Axis differentiation Hand plate unspecified axis

- 36 Congenital hand 5: Deformations & Dysplasias
- 37 Congenital Hand 6: Dysplasias Tumorous conditions
- 38 Congenital hand 7: Dysplasias Congenital contractures
- 39 Growth considerations in the pediatric upper extremity
- 40 Treatment of the upper extremity amputee
- 41 Upper extremity composite allotransplantation
- 42 Aesthetic surgery for the hand
- 43 Hand therapy