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Nota di contenuto	Methods in Bioengineering: Biomicrofabrication and Biomicrofluidics; Contents; Preface; Chapter 1 Microfabrication Techniques for Microfluidic Devices; 1.1 Introduction to microsystems and microfluidic devices; 1.2 Microfluidic systems: fabrication techniques; 1.3 Transfer processes; 1.3.1 Photolithography; 1.3.2 Molding; 1.4 Additive processes; 1.4.1 Growth of SiO ₂ ; 1.4.2 Deposition techniques; 1.5 Subtractive techniques; 1.5.1 Etching; 1.5.2 Chemical-mechanical polishing and planarization; 1.6 Bonding processes; 1.6.1 Lamination; 1.6.2 Wafer bonding methods; 1.7 Sacrificial layer techniques 1.8 Packaging processes 1.8.1 Dicing; 1.8.2 Electrical interconnection and wire bonding; 1.8.3 Fluidic interconnection in microfluidic systems; 1.9 Materials for microfluidic and bio-MEMS applications; 1.9.1 Glass, pyrex, and quartz; 1.9.2 Silicon; 1.9.3 Elastomers; 1.9.4 Polydimethylsiloxane; 1.9.5 Epoxy; 1.9.6 SU-8 thick resists; 1.9.7 Thick positive resists; 1.9.8 Benzocyclobutene; 1.9.9 Polyimides; 1.9.10 Polycarbonate; 1.9.11 Polytetrafluoroethylene; 1.10 Troubleshooting table; 1.11 Summary; References; Chapter 2 Micropumping and Microvalving; 2.1 Introduction 2.2 Actuators for micropumps and microvalves 2.2.1 Pneumatic

actuators; 2.2.2 Thermopneumatic actuators; 2.2.3 Solid-expansion actuators; 2.2.4 Bimetallic actuators; 2.2.5 Shape-memory alloy actuators; 2.2.6 Piezoelectric actuators; 2.2.7 Electrostatic actuators; 2.2.8 Electromagnetic actuators; 2.2.9 Electrochemical actuators; 2.2.10 Chemical actuators; 2.2.11 Capillary-force actuators; 2.3 Micropumps; 2.3.1 Mechanical pump; 2.3.2 Nonmechanical pump; 2.4 Microvalves; 2.4.1 Mechanical valve; 2.4.2 Nonmechanical valve; 2.5 Outlook; 2.6 Troubleshooting; 2.7 Summary points; References

Chapter 3 Micromixing Within Microfluidic Devices

3.1 Introduction; 3.2 Materials; 3.2.1 Microfluidic mixing devices; 3.2.2 Microfluidic interconnects; 3.2.3 Optical assembly; 3.2.4 Required reagents; 3.3 Experimental design and methods; 3.3.1 Passive micromixers; 3.3.2 Active micromixers; 3.3.3 Multiphase mixers; 3.4 Data acquisition, anticipated results, and interpretation; 3.4.1 Computer acquisition; 3.4.2 Performance metrics, extent of mixing, reaction monitoring; 3.5 Discussion and commentary; 3.6 Troubleshooting; 3.7 Application notes; 3.8 Summary points; References

Chapter 4 On-Chip Electrophoresis and Isoelectric Focusing Methods for Quantitative Biology

4.1 Introduction; 4.1.1 Microfluidic electrophoresis supports quantitative biology and medicine; 4.1.2 Biomedical applications of on-chip electrophoresis; 4.2 Materials; 4.2.1 Reagents; 4.2.2 Facilities/equipment; 4.3 Methods; 4.3.1 On chip polyacrylamide gel electrophoresis (PAGE); 4.3.2 Polyacrylamide gel electrophoresis based isoelectric focusing; 4.3.3 Data acquisition, anticipated results, and interpretation; 4.3.4 Results and discussion; 4.4 Discussion of pitfalls; 4.5 Summary notes

Sommario/riassunto

Written and edited by recognized experts in the field, the new Artech House Methods in Bioengineering series offers detailed guidance on authoritative methods for addressing specific bioengineering challenges. Offering a highly practical presentation of each topic, each book provides research engineers, scientists, and students with step-by-step procedures, clear examples, and effective ways to overcome problems that may be encountered. This unique volume presents leading-edge microfluidics methods used to handle, manipulate, and analyze cells, particles biological components (e.g., proteins and DNA) for microdiagnostics.

2. Record Nr.	UNINA9910459194203321
Autore	Awkward Michael
Titolo	Burying Don Imus [[electronic resource]] : anatomy of a scapegoat // Michael Awkward
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Nota di contenuto	Preface: A symbolic burial -- Part I. Scapegoating Imus -- "What evil look like" -- Humor as hate speech -- The tight-lipped refusal to laugh -- Racial violence and collective trauma -- In Al Sharpton's crosshairs -- The appeal of Imus in the morning -- Part II. "Nappy-headed hos" in context -- The rough girls of Rutgers -- Hard-core misogyny, the hip-hop lexicon -- Role-play, nigger jokes, and the politics of hair -- Instant experts and false accusers: the Duke Lacrosse Team controversy -- Conclusion : Imus in the morning redux.
Sommario/riassunto	"The radio talk show host Don Imus became the improbable focus of a heated national discussion on race, gender, and the power of language. In <i>Burying Don Imus: Anatomy of a Scapegoat</i> , Michael Awkward provides the first balanced, critical analysis of Imus's comments and the public outrage they provoked." "Written from the singular perspective of a black intellectual with both a long-standing commitment to feminism and a deep familiarity with - and appreciation of - Imus in the Morning, this book contends that the reaction to the insult ignored the nature of Imus's contributions to popular culture and political debate while eliding the real and very complicated issues within contemporary racial politics." "Awkward's probing account analyzes the responses within the African-American community as

reflective of deep-seated anxieties rooted in the collective trauma resulting from centuries of slavery, Jim Crow, and racial violence. Placing the controversy in multiple contexts, he addresses Imus's public persona and the satirical intent of his show, and delves into such charged topics as the perception of women athletes in American culture, the tradition of racist humor, the sexist language of hip-hop, and the politics of black hairstyles. Awkward also juxtaposes the Imus incident with other recent controversies, including the rape accusations leveled against white players on Duke University's lacrosse team in 2006, in order to demonstrate how sensational spectacles of racism play out in the media again and again."--BOOK JACKET.
