

TRANSFORMING
COMBUSTION RESEARCH
THROUGH
CYBERINFRASTRUCTURE

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Transforming Combustion Research Through Cyberinfrastructure

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Transforming Combustion Research through Cyberinfrastructure National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Board on Mathematical Sciences and Their Applications, Committee on Building Cyberinfrastructure for Combustion Research, 2011-05-10 Combustion has provided society with most of its energy needs for millennia from igniting the fires of cave dwellers to propelling the rockets that traveled to the Moon Even in the face of climate change and the increasing availability of alternative energy sources fossil fuels will continue to be used for many decades However they will likely become more expensive and pressure to minimize undesired combustion by products pollutants will likely increase The trends in the continued use of fossil fuels and likely use of alternative combustion fuels call for more rapid development of improved combustion systems In January 2009 the Multi Agency Coordinating Committee on Combustion Research MACCCR requested that the National Research Council NRC conduct a study of the structure and use of a cyberinfrastructure CI for combustion research The charge to the authoring committee of Transforming Combustion Research through Cyberinfrastructure was to identify opportunities to improve combustion research through computational infrastructure CI and the potential benefits to applications identify necessary CI elements and evaluate the accessibility sustainability and economic models for various approaches identify CI that is needed for education in combustion science and engineering identify human cultural institutional and policy challenges and how other fields are addressing them Transforming Combustion Research through Cyberinfrastructure also estimates the resources needed to provide stable long term CI for research in combustion and recommends a plan for enhanced exploitation of CI for combustion research

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infrastructure CI and the potential benefits to applications identify necessary CI elements and evaluate the accessibility sustainability and economic models for various approaches identify CI that is needed for education in combustion science and engineering identify human cultural institutional and policy challenges and how other fields are addressing them Transforming Combustion Research through Cyberinfrastructure also estimates the resources needed to provide stable long term CI for research in combustion and recommends a plan for enhanced exploitation of CI for combustion research

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What is an American identity The tension between populism and pluralism between homogeneity and heterogeneity has marked the United States since its inception In *The Divided States* leading scholars and critics argue that the US is and has always been a site where multiple national identities intersect in productive and challenging ways Scrutinizing conflicting nationalisms and national identities the authors ask Whose stories get told and whose do not Who or what promotes the idea of a unified national identity in the United States How is the notion of a unified national identity disrupted What myths and stories bind the US together How representative are these stories What are the counternarratives And if the idea of national homogeneity is a fallacy what does tie us together as a nation Working across auto biography studies American studies and human geography all of which deal with the current interest in competing narratives alternative facts and accountability the essays engage in and contribute to critical conversations in classrooms scholarship and the public sphere The authors draw from a variety of fields including anthropology class analysis critical race theory diasporic refugee and immigration studies disability studies gender studies graphic and comix studies Indigenous studies linguistics literary studies sociology and visual culture And the genres under scrutiny include diary epistolary communication digital narratives graphic narratives literary narratives medical narratives memoir oral history and testimony This fresh and theoretically engaged volume will be relevant to anyone interested in the multiplicity of voices that make up the US national narrative

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